

PROMETHEAN

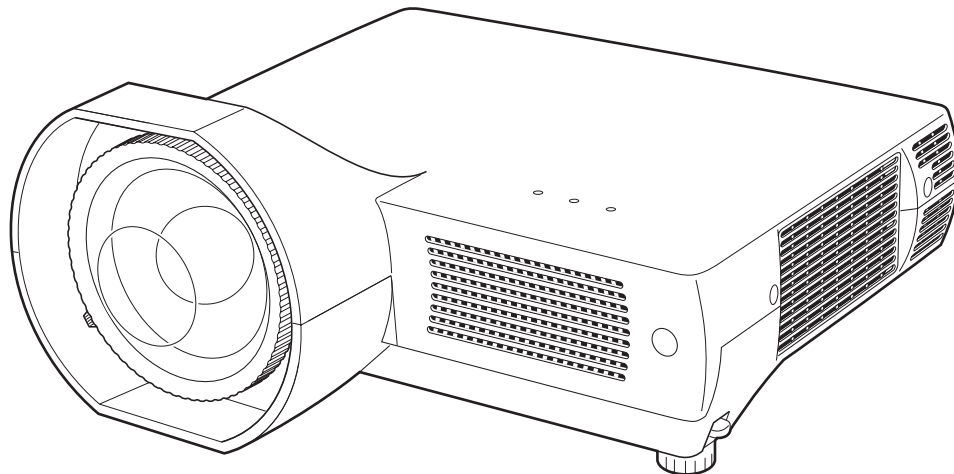
FILE NO.

SERVICE MANUAL Multimedia Projector

Model No. PRM-10

U.S.A. Canada
Europe, U.K

Original Version



NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

Chassis No. KJ7-1000

PRODUCT CODE

1 122 433 18 (KJ7YC)

1 122 434 18 (LJ7YC)

1 122 434 19 (LJ7ZC)

REFERENCE NO. SM5110946-00

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Safety Instructions

SAFETY PRECAUTIONS

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing. Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts. Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Battery Replacement Notice

Caution

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacture's instructions.

Replace Battery With SANYO Electric Co., Ltd., Part No. 945 081 8722 or 945 088 6837 Only. Use of Another Battery May Present A Risk Of Fire or Explosion.

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	12.6" x 5.83" x 11.5" (320mm x 148mm x 292mm) (Not including adjustable feet)
Net Weight	7.3 lbs (3.3kgs)
Feet Adjustment	0° to 10.0°

Panel Resolution

LCD Panel System	0.6" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 60" to 80"
Projection Lens	F 1.85 lens with f 8.1 mm ~ 27 mm with manual focus
Throw Distance	2.40' - 3.22' (0.73m - 0.98m)
Projection Lamp	200W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Computer Input 1 / Component Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal X 1 (In / Out switchable)
Computer/ Component Audio Input Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
USB Connector	USB Series B receptacle x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)

Audio

Internal Audio Amp	1.0W RMS
Built-in Speaker	1 speaker, ø1.1" (28mm)

Power

Voltage and Power Consumption	AC 100 ~ 120 V (2.9A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada)
	AC 200 ~ 240 V (1.4A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10°C ~ 60 °C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	16.4' (5m) / ±30°
Dimensions	1.9"(W) x 0.87"(H) x 5.7"(D) (49mm x 22mm x 145.3mm)
Net Weight	3.53 oz (100 g) (including batteries)

Antitheft Alarm

Battery	CR2 3V LITHIUM BATTERY x 1
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- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 105°C, the thermal switch opens to stop the operation of the power supply circuit.

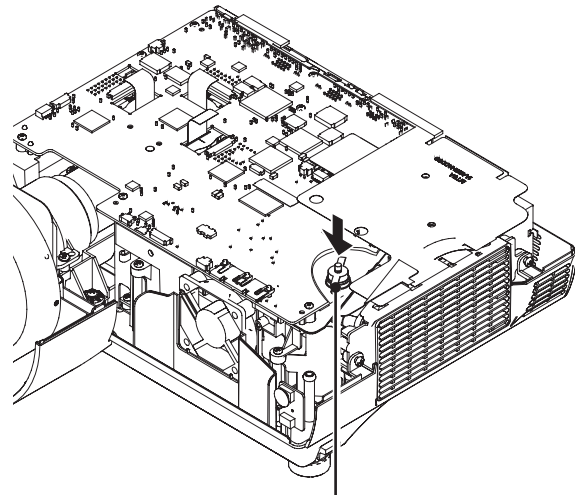
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Remove the cabinet top, cabinet front and main board and then remove the power box top cover.
2. Press the reset button on the thermal switch in the power box.

CAUTION:

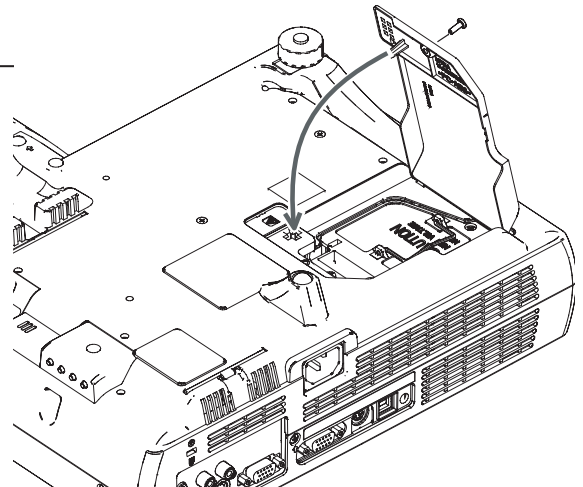
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Thermal switch (SW902)

Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Fuse

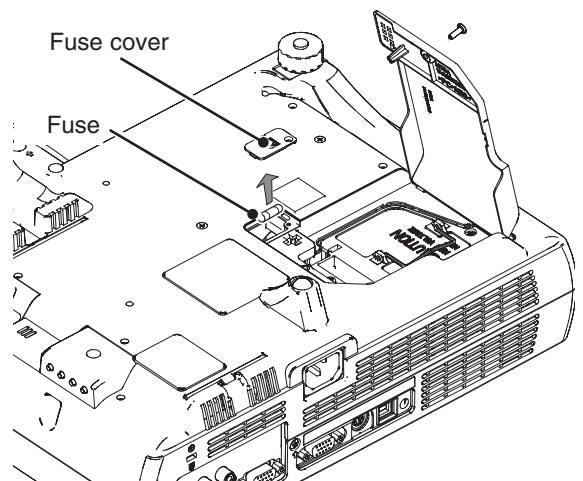
A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.

The fuse should be used with the following type;

Fuse Part No.: 323 021 7804
TYPE T6.3AH 250V FUSE
LITTLE FUSE INC. TYPE 21506.3

How to replace the fuse

1. Remove the lamp cover and fuse cover as shown in figure.
2. Take the fuse out from the aperture, and replace the new one with the specified type.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter “Power supply & protection circuit” in the Chassis Block Diagram section.

Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 °C or 41 to 95°F)

Air filter care and cleaning

Air filters prevent dust from accumulating on the optical elements inside the projector. Should the air filters become clogged with dust particles, it will reduce cooling fans’ effectiveness and may result in internal heat build up and adversely affect the life of the projector. Clean the air filters following the steps below.

1. Turn off the projector, and disconnect the AC power cord from the AC outlet.
2. Turn over the projector and remove the air filters by pulling the latches upward.
3. Clean the air filters with a brush or rinse them softly.
4. When cleaning the air filters by rinsing, dry them well. Replace the air filters properly. Make sure that the air filters are fully inserted.

CAUTION:

Do not operate the projector with the air filters removed. Dust may accumulate on the LCD panel and the projection mirror degrading picture quality.

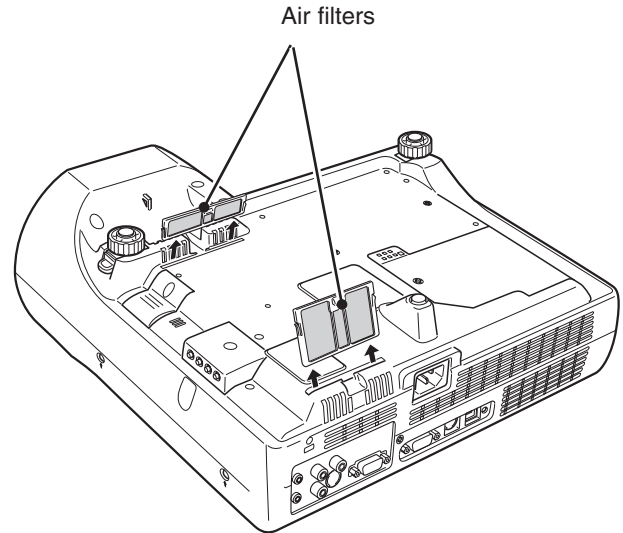
Do not put small parts into the air intake vents. It may result in malfunction of the projector.

RECOMMENDATION:

We recommend avoiding dusty/smoky environments when operating the projector. Usage in these environments may cause poor image quality.

When using the projector under dusty or smoky conditions, dust may accumulate on a lens, LCD panels, or optical elements inside the projector. This condition may degrade the quality of a projected image.

When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.



Security Function Notice

Security Function Disable

This projector provides security functions such as "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
PIN code lock	Prevents the projector from being operated by an unauthorized person. <i>Initial code: "1234"</i>
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. <i>Initial code: "4321"</i>

Resetting procedure

- 1 Turn the projector off (in the standby mode).
- 2 Press and hold the ◀ and ▶ **button** on the remote control at the same time for more than 10 seconds. The PIN code and Logo PIN code will be reset to the factory initial setting code.

Please refer to the owner's manual for further information of the security functions.

Antitheft Alarm Function Disable

This projector provides an Antitheft alarm function which works when detecting a vibration to protect the projector from a suspicious person.

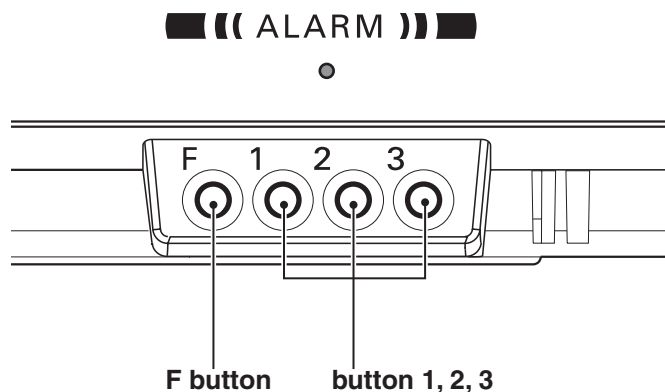
Release the alarm setting

Press the **F button** and input the four-digit PIN code within 10 seconds. (default PIN code "1111") When the alarm is released, you will hear high-pitched confirmation sound.

When inputting an incorrect PIN code, you will hear low-pitched sound. If you input incorrect PIN codes 3 times, the alarm will start ringing.

If you forget the PIN code to release the alarm setting, press and hold the **button 3** and **F button** at the same time for more than 3 seconds.

Side Control



Lamp Replacement

Lamp replacement

WARNING:

- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

Procedure

- 1 Turn off the projector and disconnect the AC cord.
- 2 Remove 1 screw with a screwdriver and remove the lamp cover.
- 3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
- 4 Replace the lamp with a new one and tighten the 2 screws back into position. Make sure that the lamp is set properly. Replace the lamp cover and tighten the screw.
- 5 Connect the AC cord to the projector and turn on.
- 6 Reset the lamp replacement counter, see below explanation.

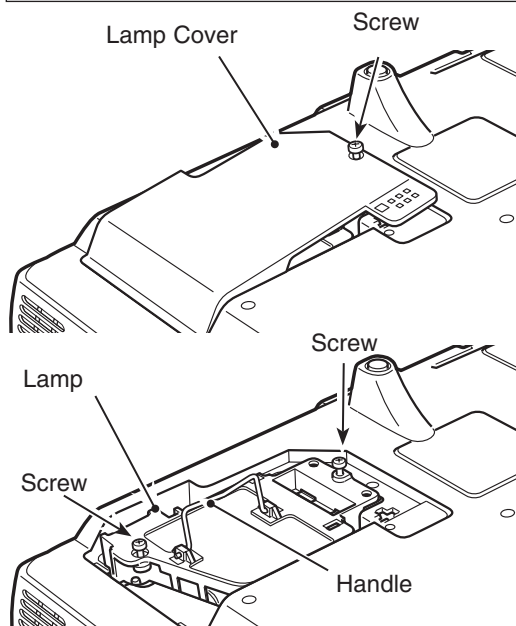
Note

- The projector cannot be turned-on with lamp cover removed, because when the lamp cover is removed, the lamp cover switch is also released to switch off the lamp circuit.

ORDER REPLACEMENT LAMP

Type No. _____ Service Parts No. _____

POA-LMP126 610 340 8569



**WARNING : TURN OFF THE UV LAMP BEFORE OPENING.
USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.**

How to reset Lamp Replace Counter

- 1 Turn the projector on, press the **MENU** button and the On-Screen Menu will appear. Press the **◀** or **▶** button to move the red frame pointer to the Setting Menu icon.
- 2 Press the **▼** button to move the red frame pointer to the Lamp counter reset item and then press the **SELECT** button. Select "Reset" and press the **SELECT** button. The message "Lamp replace counter Reset?" is displayed. Move the pointer to [Yes] and then press the **SELECT** button.

* Refer to owner's manual for further information.

Recommendation

Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to "Air Filter Cleaning".

How to check Lamp used time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3000 hours. This is to indicate that lamp replacement is required.

The total lamp used time (Corresponding value) is calculated by using the below expression,

Total lamp used time = $T_{normal} + T_{high} \times 2$

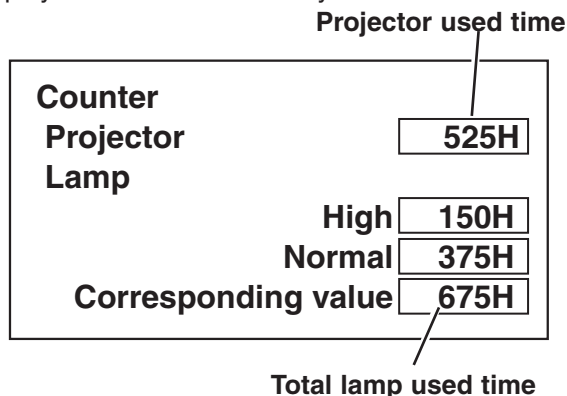
T_{normal} : used time in the Normal mode

T_{high} : used time in the High and Auto mode

You can check the lamp used time following to the below procedure.

- 1 Press and hold the **ON-OFF** button on the remote control for more than 20 seconds.

- 2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



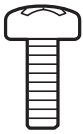
Mechanical Disassembly

Mechanical disassembly should be made following procedures in numerical order.

Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1 Cabinet Top & Fans (FN901, FN902), R/C Board removal

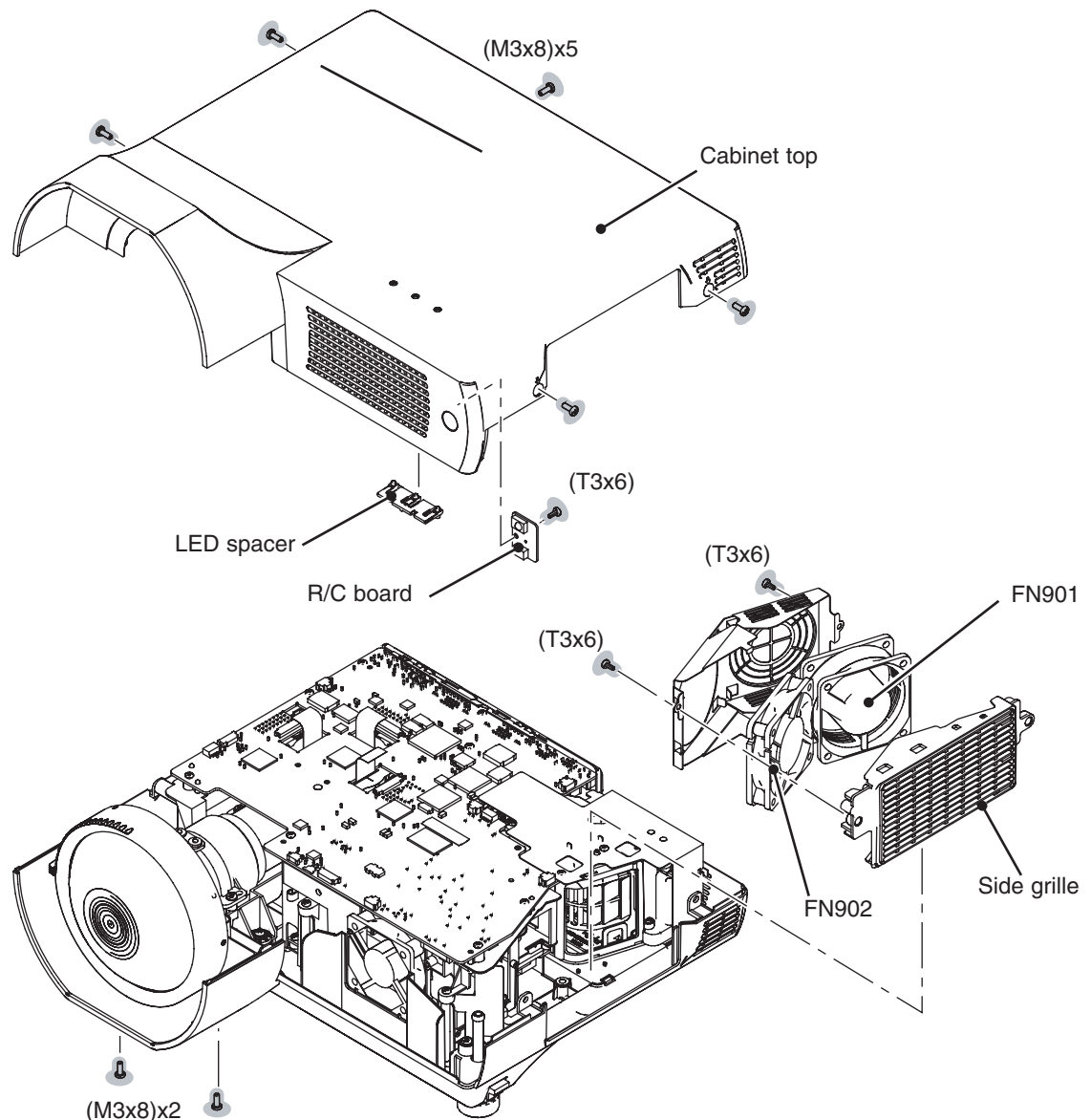


Fig.1

2 Main Board, Rear Panel, Fan(FN905), SP901 removal

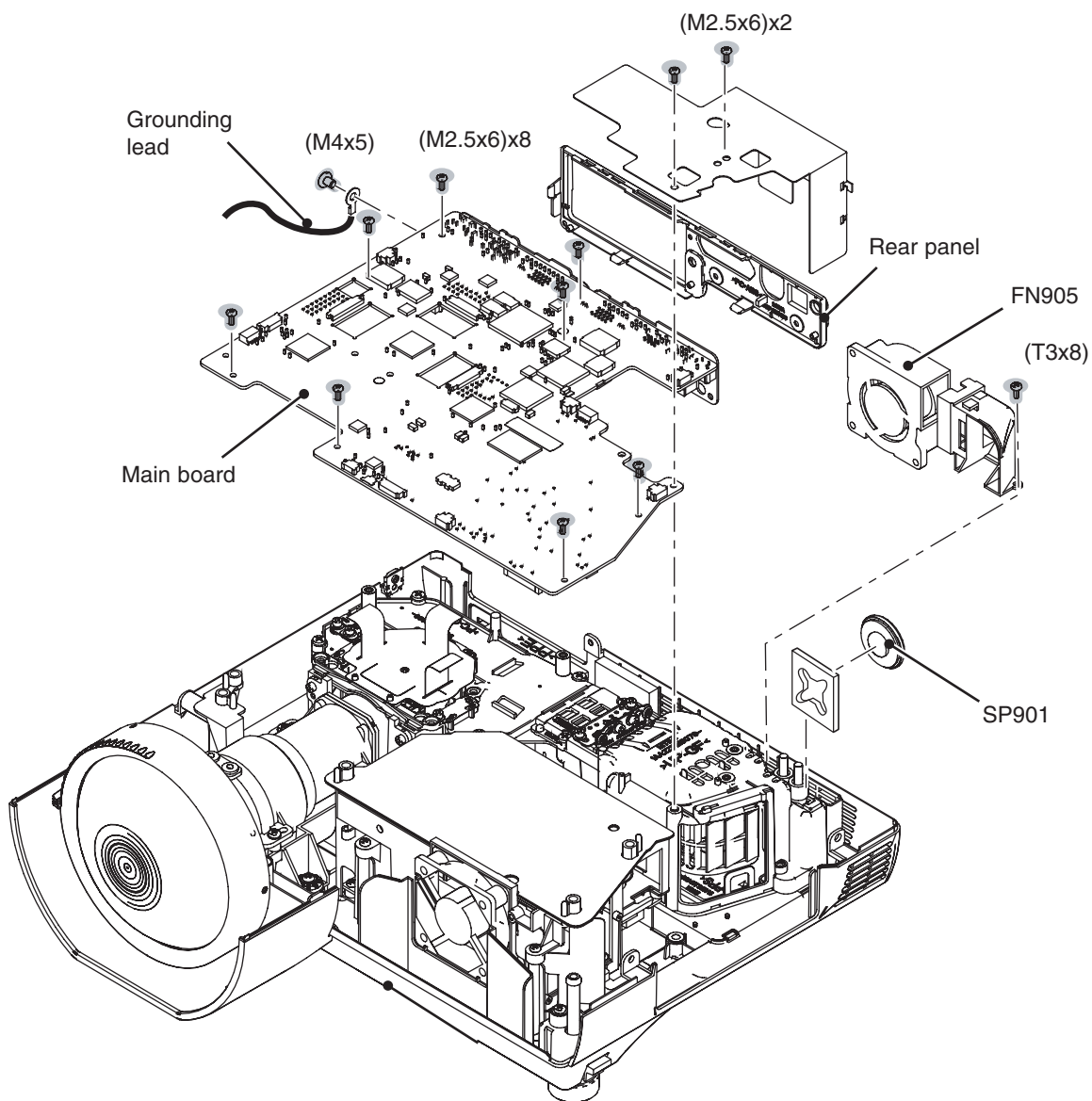


Fig.2

3 Power, Line Filte, Ballast Board,Thermal Sw(SW902), Fan(FN906) removal

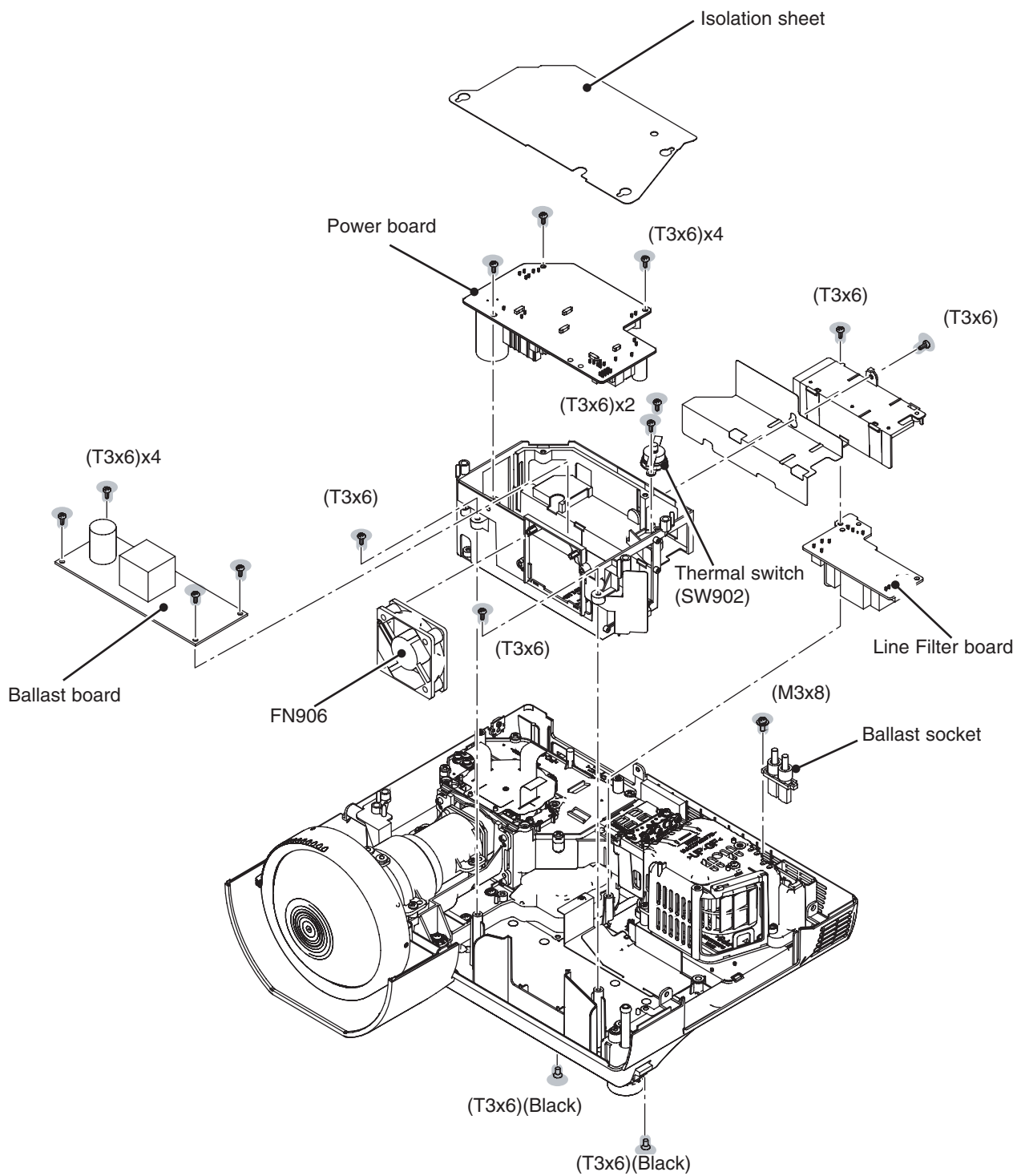


Fig.3

4 Optical Unit, Fans(FN903, FN904), Noise Filter removal

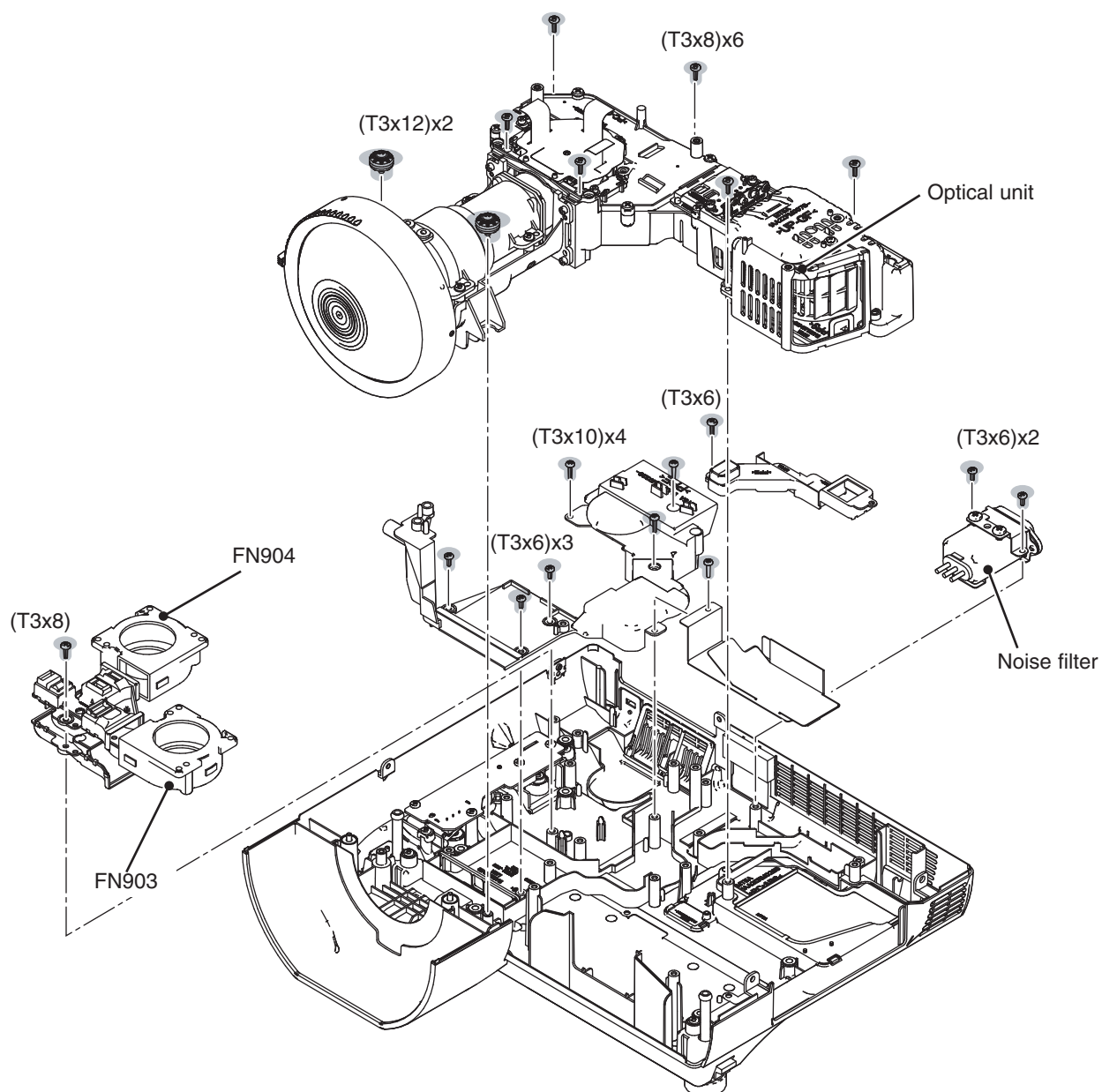


Fig.4

5 Alarm-A and Alarm-B board removal

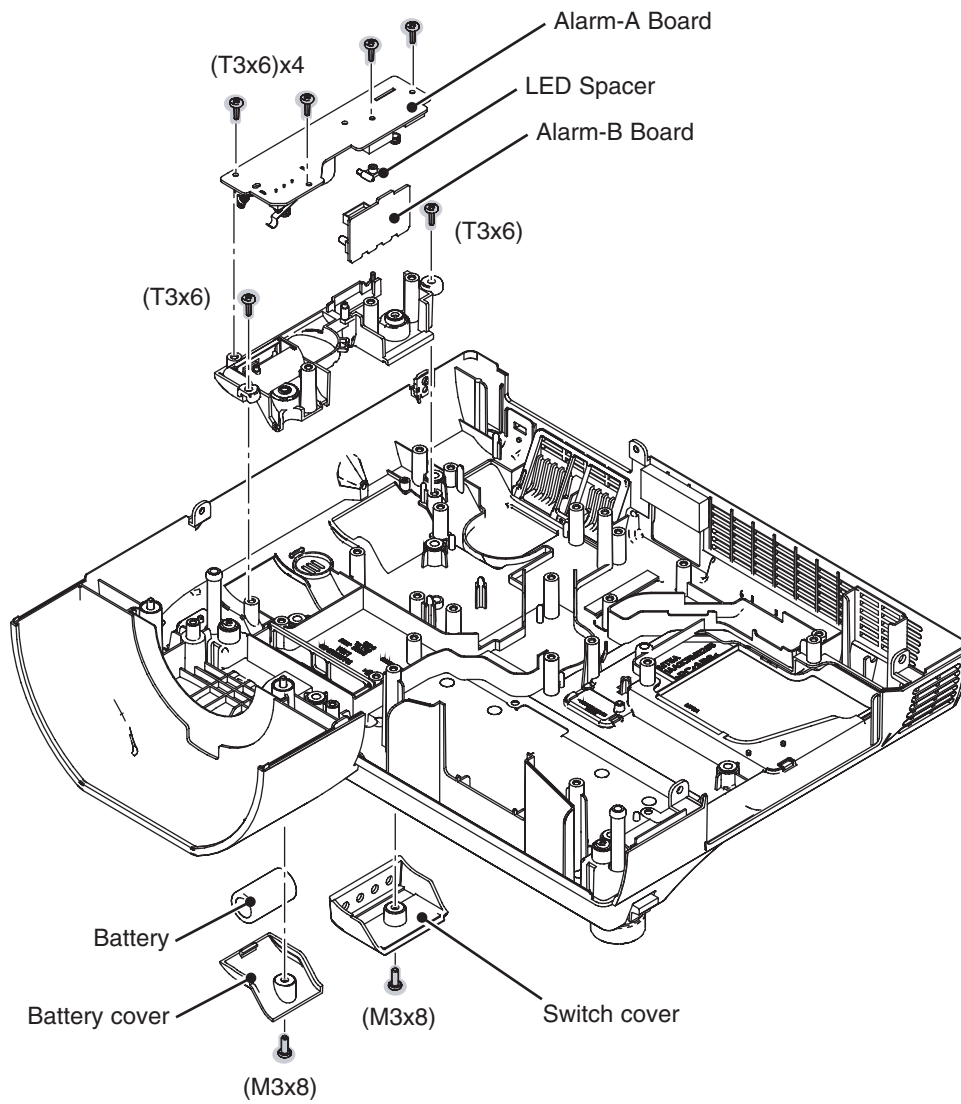


Fig.5

Optical Parts Disassembly

Before taking this procedure, remove Cabinet Top , Cabinet Front and Main Board following to the “Mechanical Disassembly”.

Disassembly requires a 2.0mm hex wrench.

1 Projection lens removal

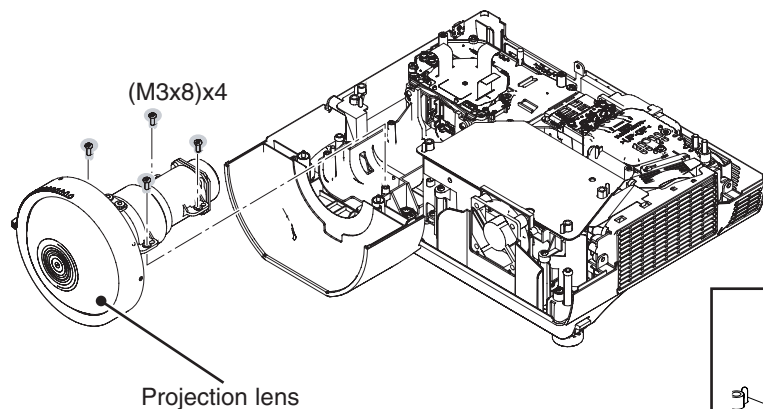
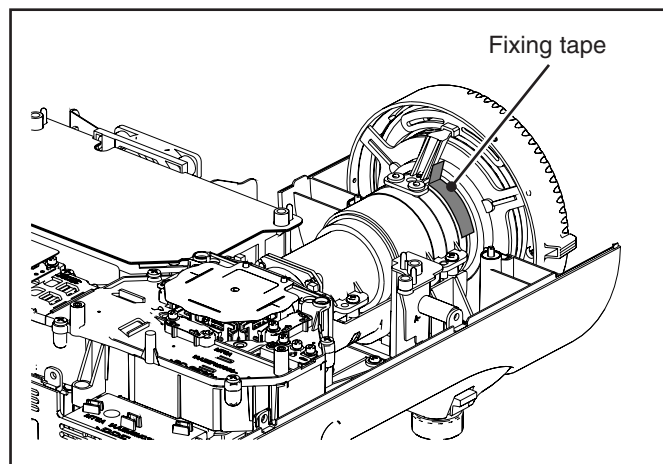


Fig.1



Note on replacing the Projection Lens

- When the Projection Lens is replaced with the new one, make sure that the fixing tape must be removed as the figure.

2 Integrator lens-in disassembly

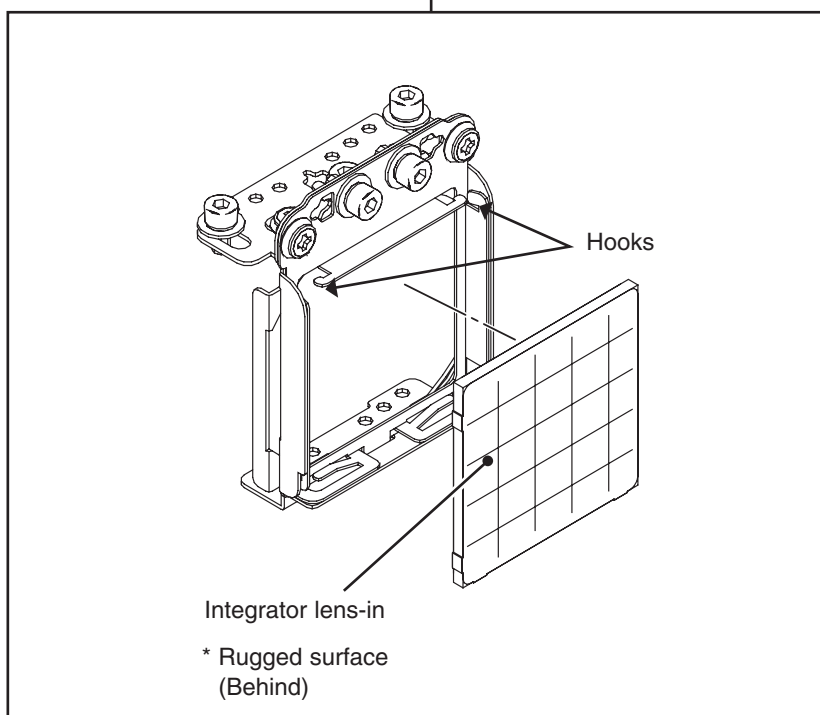
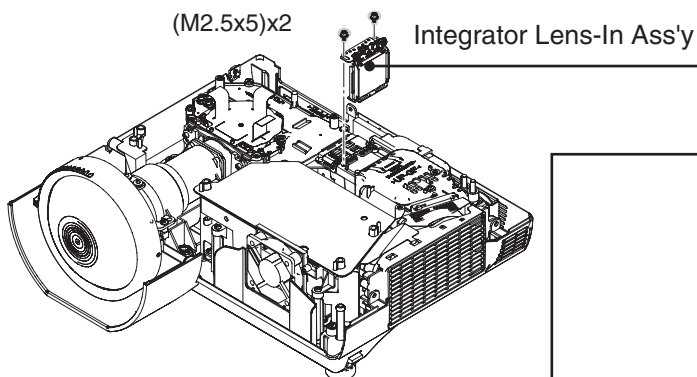
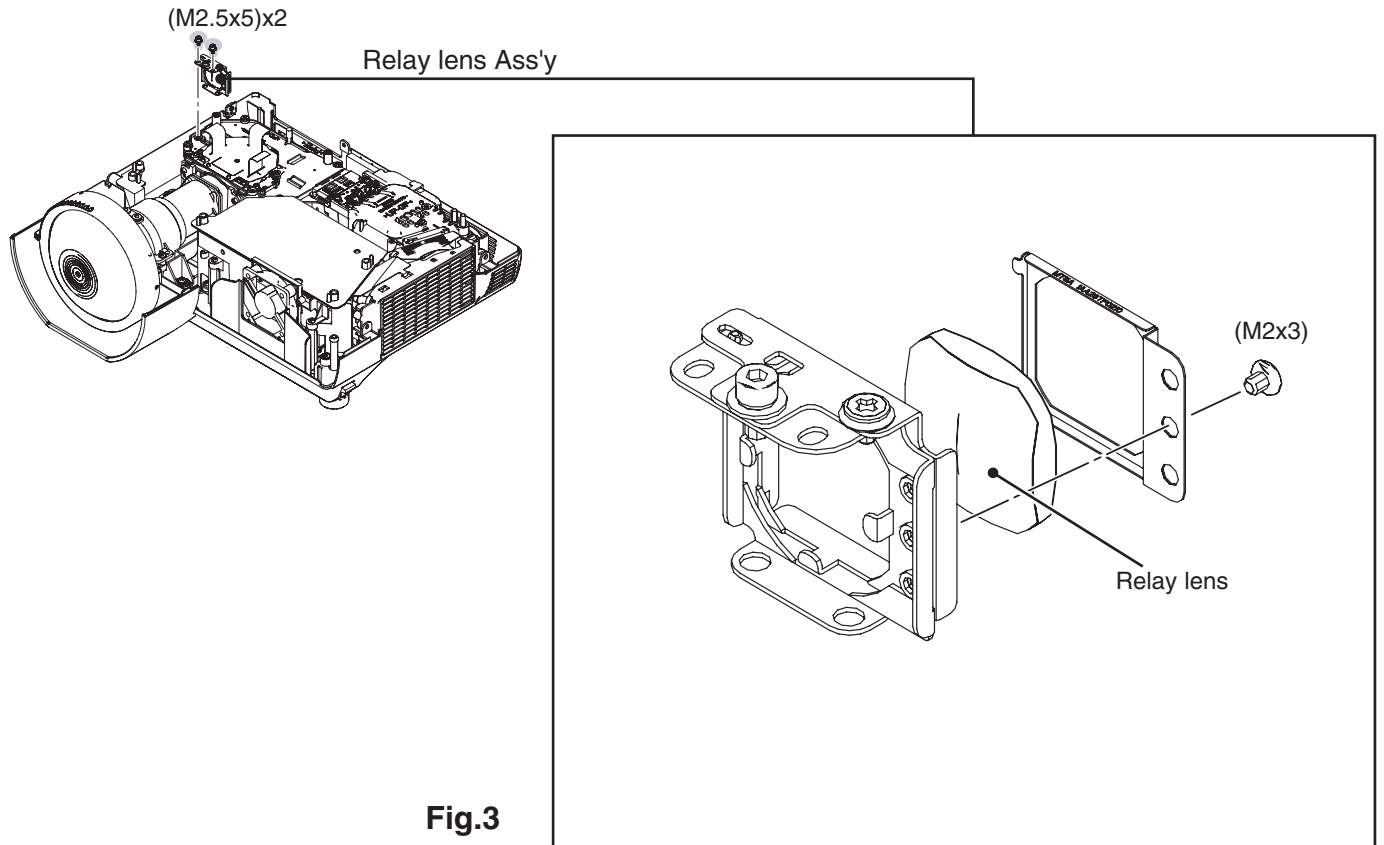
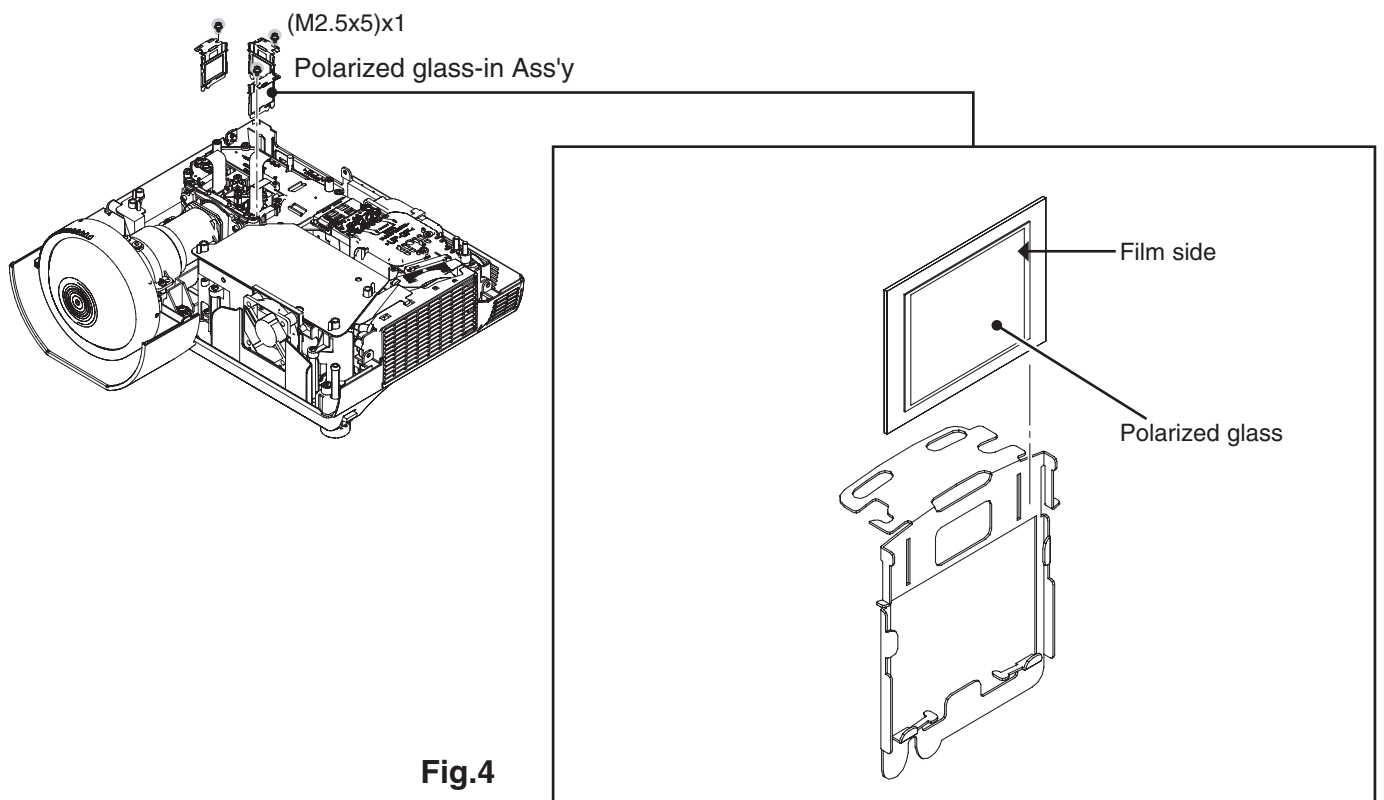


Fig.2

3 Relay lens disassembly



4 Polarized glass-in disassembly



5 LCD Panel/Prism Ass'y removal

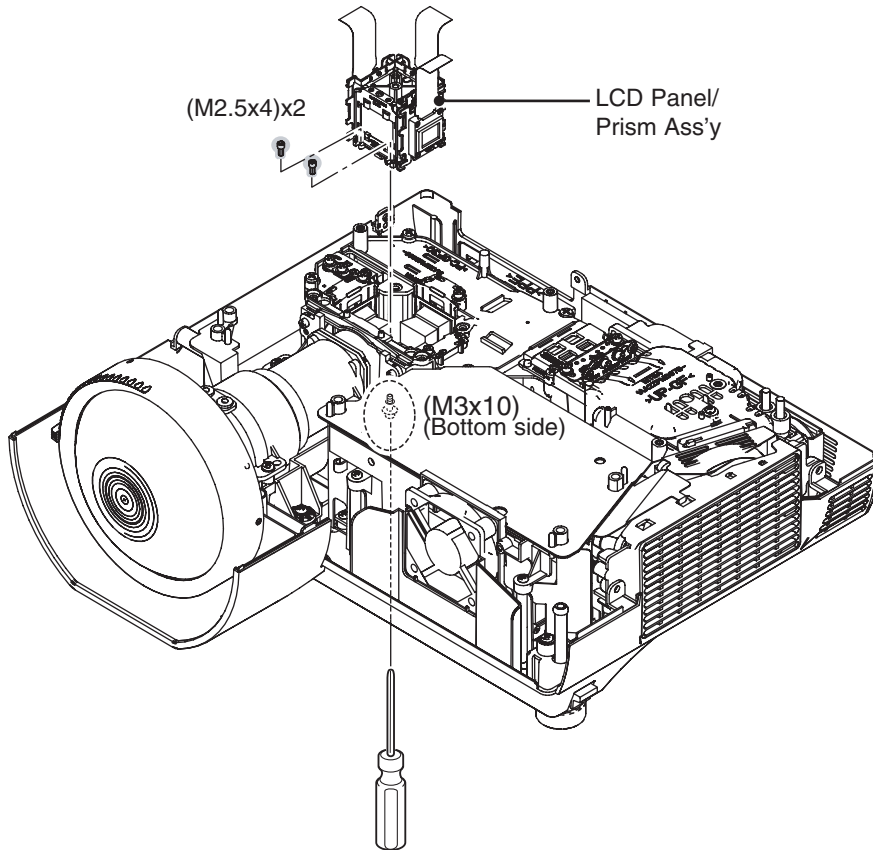


Fig.5

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment", "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Panel Type Check

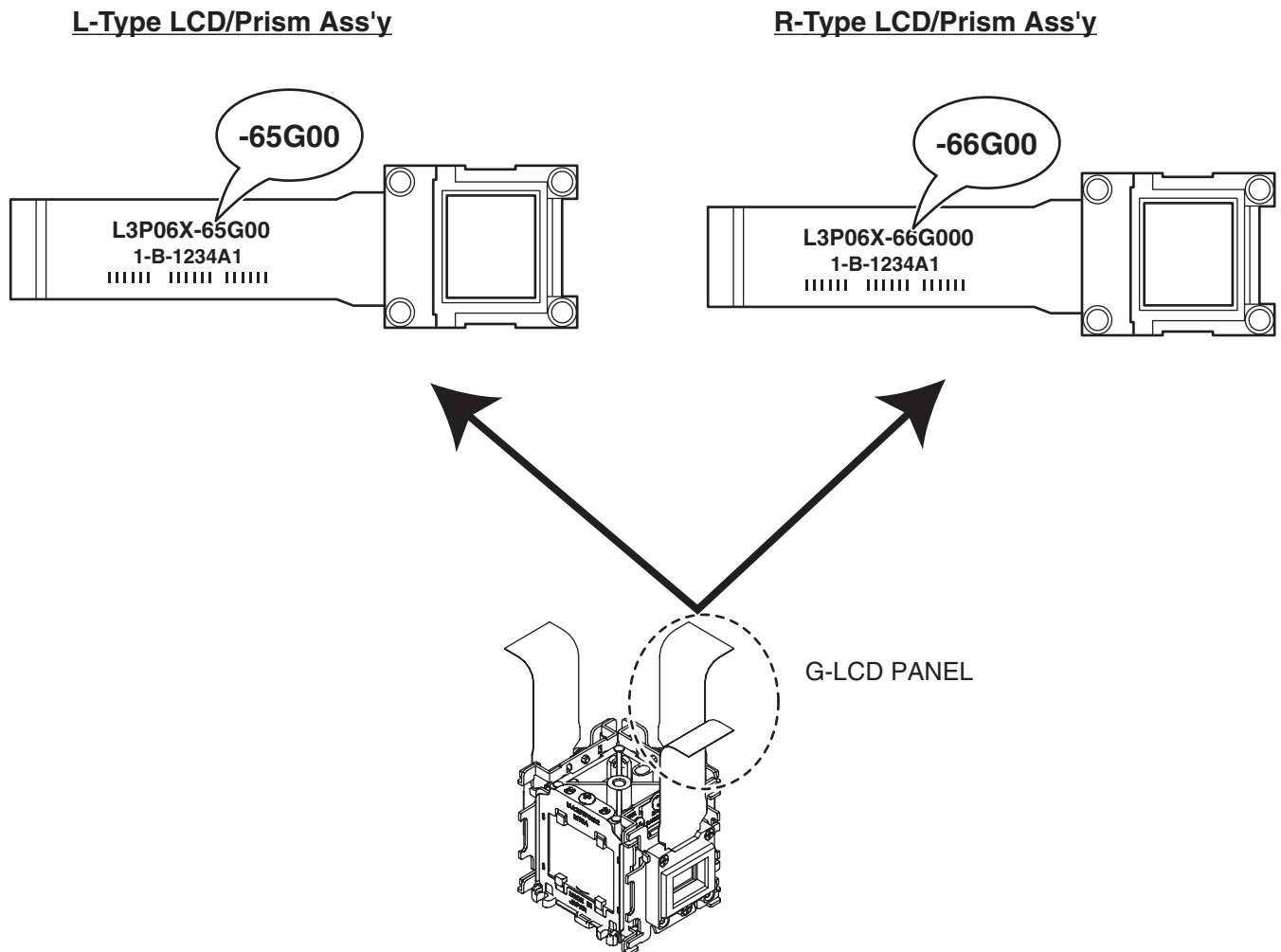
There are 2 types of LCD/Prism Ass'y for this model. Either L-Type or R-Type LCD /Prism Ass'y is used on the projector. Check which type of LCD/Prism Ass'y is used with the figure below.

When replacing the LCD/Prism Ass'y, you need to take "Panel Type Check and Setting" on the Electrical Adjustment for the replaced LCD/Prism Ass'y.

The gamma-characteristics is different between L-Type and R-Type LCD /Prism Ass'y.

How to check the type of LCD/Prism Ass'y

Check the printed number on the flat cable of the G-LCD Panel.



6 Polarized glass, Pre-polarized glass removal

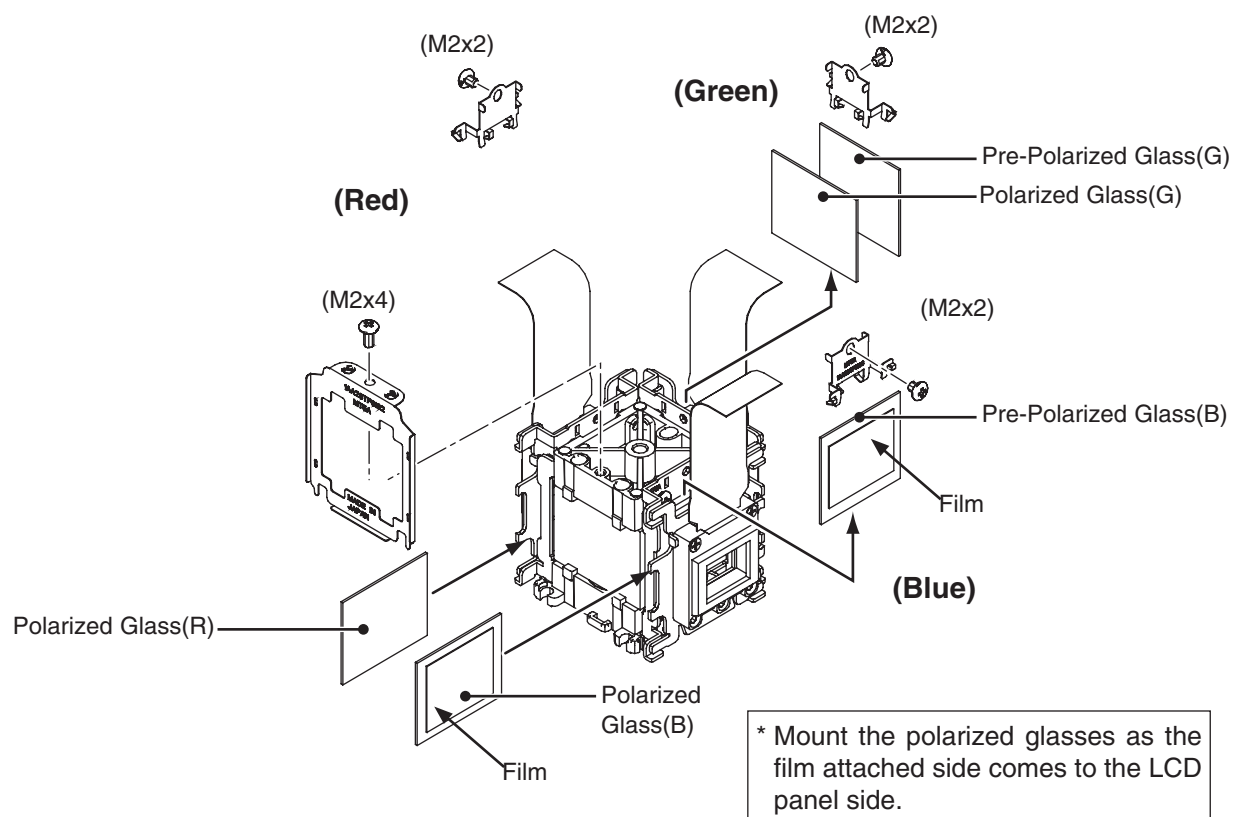


Fig.6

7 Optical Unit Top removal

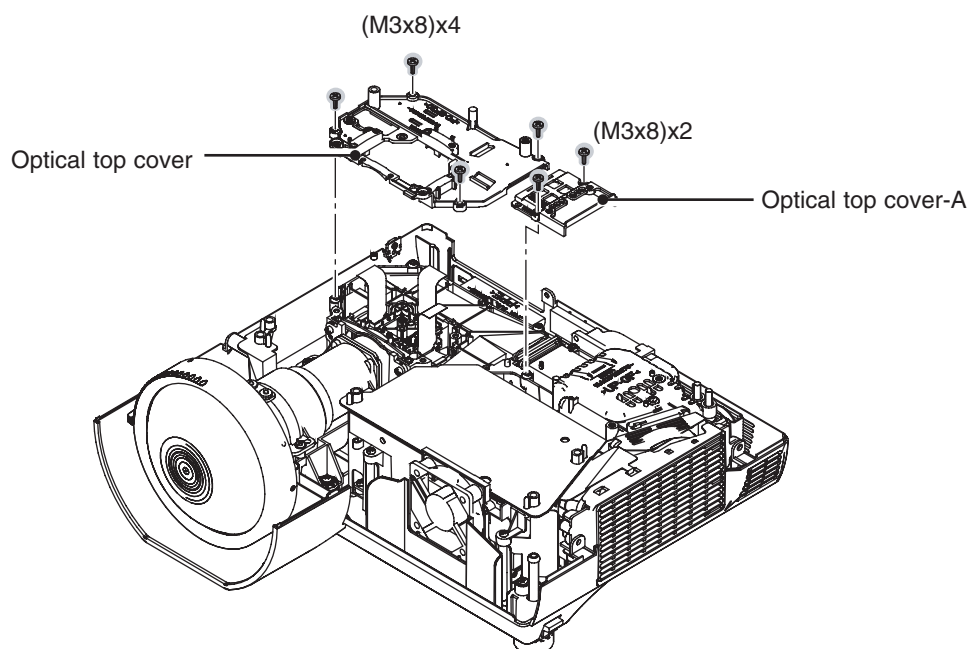
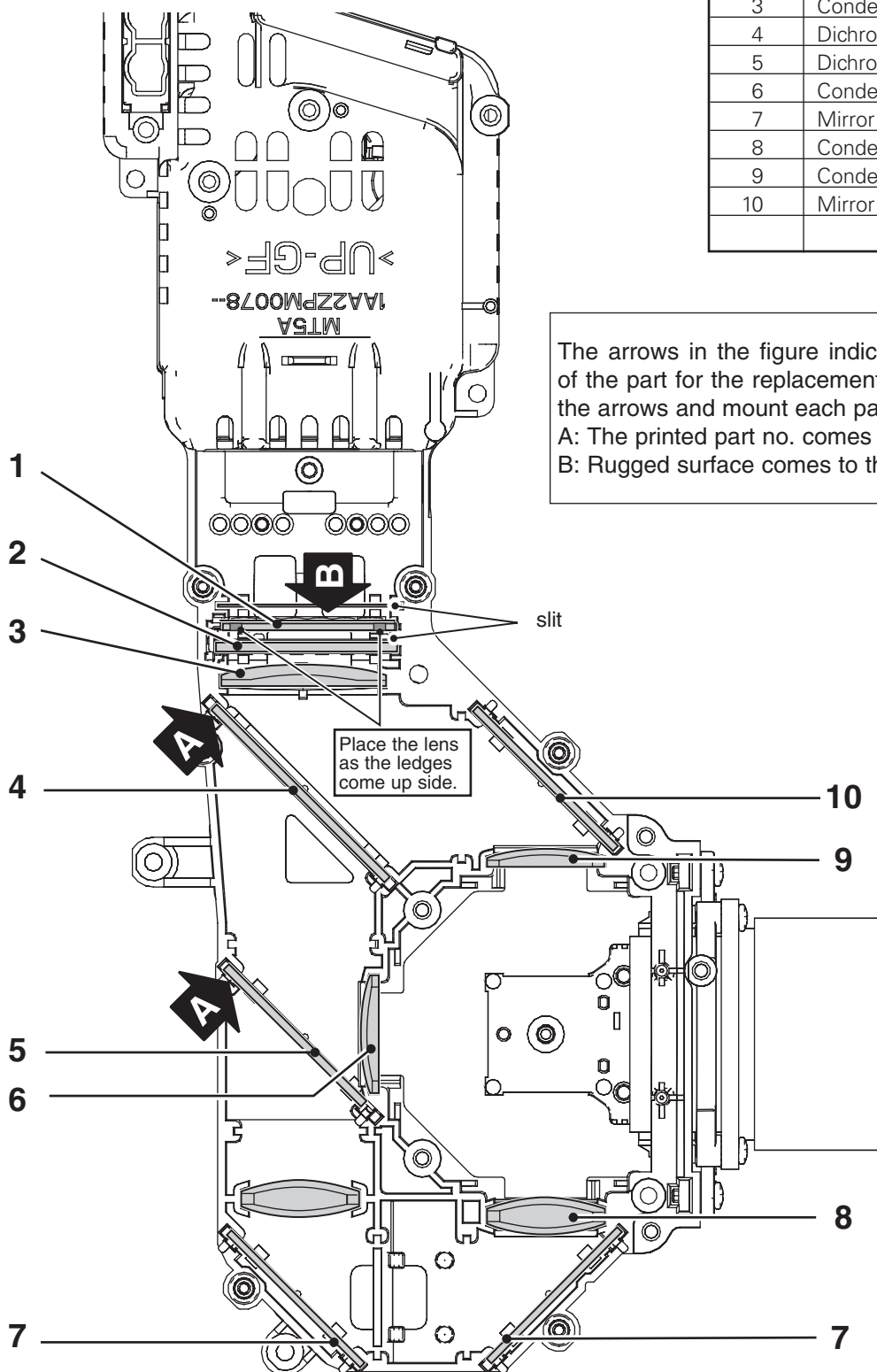


Fig.7

8 Locations and Directions

When mounting or assembling the optical parts in the optical unit, the parts must be mounted in the specified location and direction as shown in figure below.

No.	Parts Name
1	Integrator lens (OUT)
2	Prism beam splitter (PBS)
3	Condenser lens (OUT)
4	Dichroic mirror (B)
5	Dichroic mirror (G)
6	Condenser lens (G)
7	Mirror (R)
8	Condenser lens (R)
9	Condenser lens (B)
10	Mirror (B)



The arrows in the figure indicate the mount direction of the part for the replacement. Check the number on the arrows and mount each part according to its note;
A: The printed part no. comes to this side.
B: Rugged surface comes to this side.

Fig.8

Adjustments

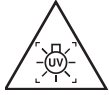
Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts							
		LCD/ Prism Ass'y	Integrator Lens (OUT)	Relay Lens (OUT)	Polarized glass			Power Board	Main Board
					R	G	B		
Optical Adjustments	Contrast Adjustment								
	R-Contrast adjustment				●				
	G-Contrast adjustment					●			
	B-Contrast adjustment						●		
	Integrator lens adjustment	○	●						
	Relay lens-out adjustment	○		●					
Electrical Adjustments	Panel type check and setting	●							●
	Fan control adjustment							●	●
	Pedestal adjustment [PC]								●
	Gain adjustment [PC]								●
	Pedestal adjustment [1080i]								●
	Gain adjustment [1080i]								●
	Gain adjustment [Video]								●
	Black reference adjustment								●
	Common center adjustment	●							●
	50% white adjustment [PC]	●							●
	White balance adjustment [PC]	○							○
	50% white adjustment [Video]	●							●
	White balance adjustment [Video]	○							○
	White uniformity adjustment	○							○

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the “Mechanical Disassembly”. Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board. Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

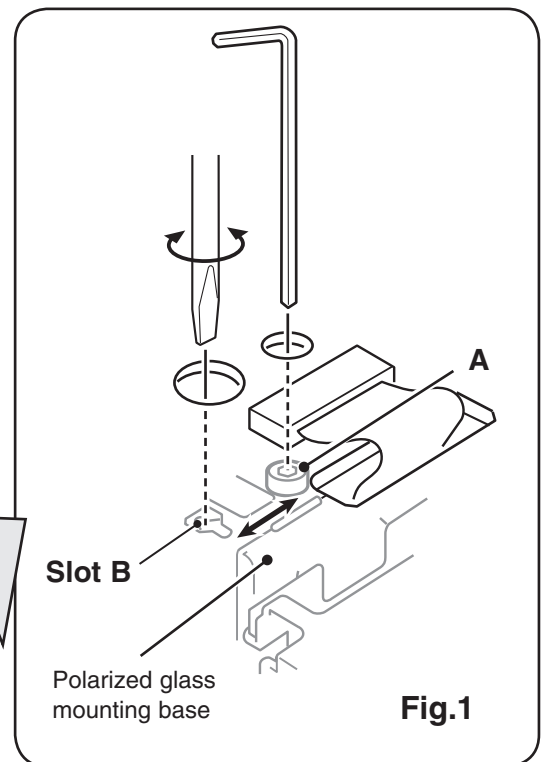
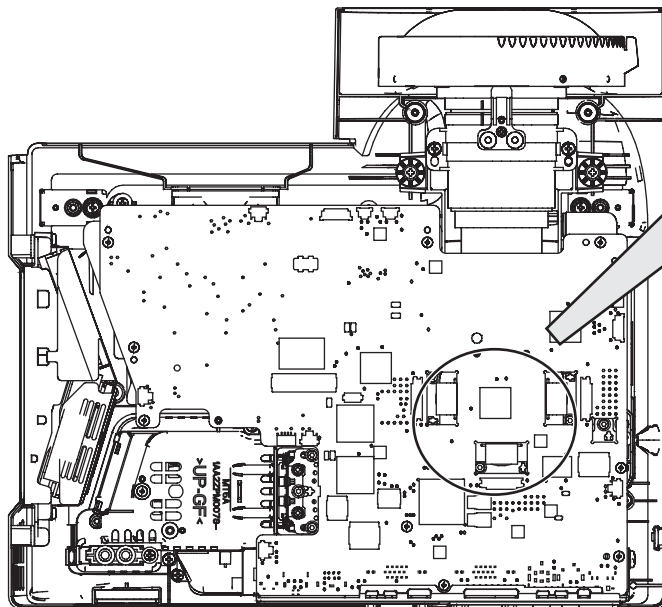
CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

[Before Adjustment]

- Input a 100% of black raster signal.

- 1 Loosen a screw **A** (**Fig.1**) on the polarized glass mounting base which you intend to adjust.
- 2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
- 3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.



A

Integrator lens adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
 - 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 - 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and adjust the slots **D** to make color uniformity in white by using a slot screwdriver
- 4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:

The relay lens adjustment must be carried out after completing this adjustment.

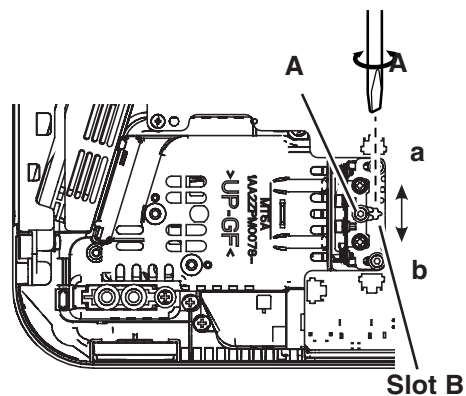
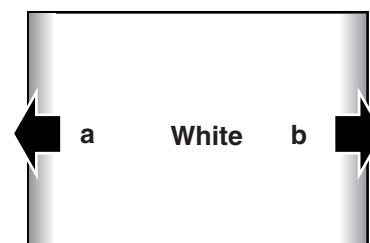
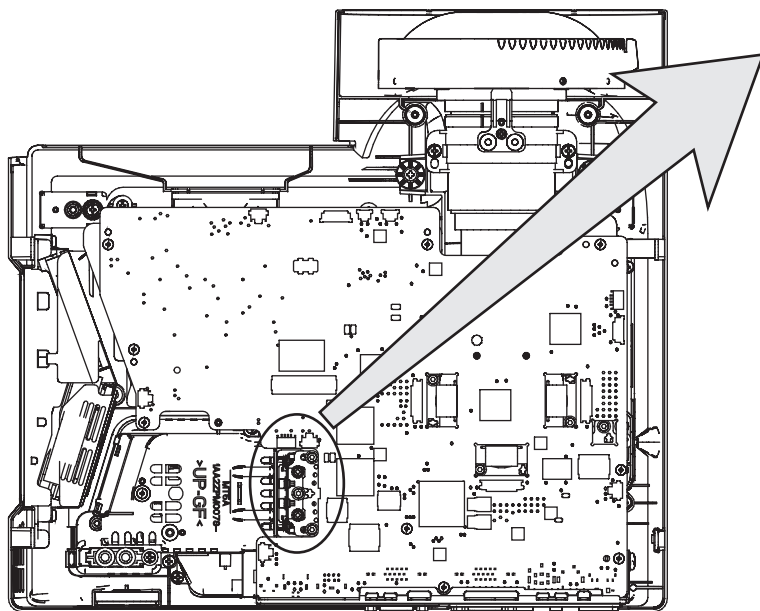


Fig.2-1
Moving of slot B

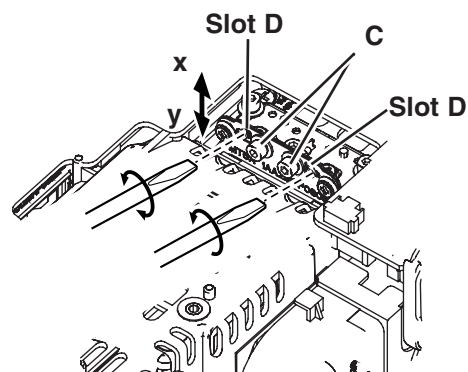
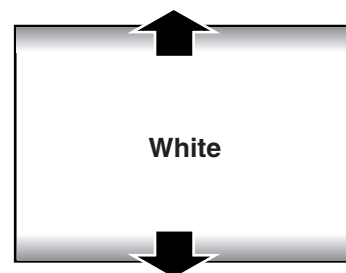
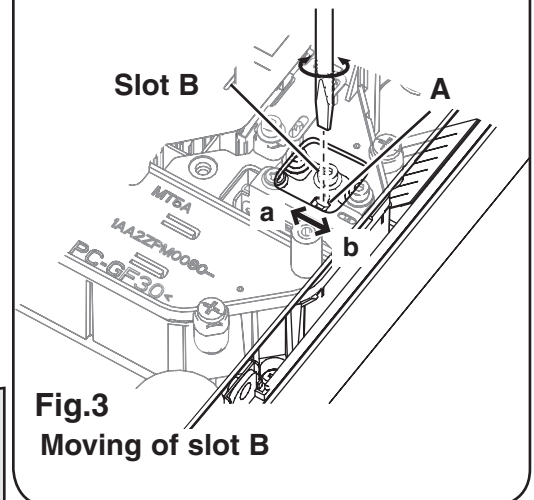
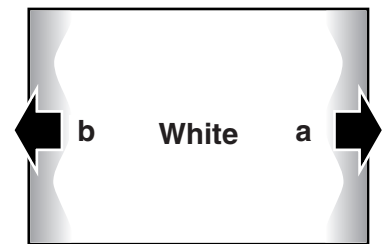
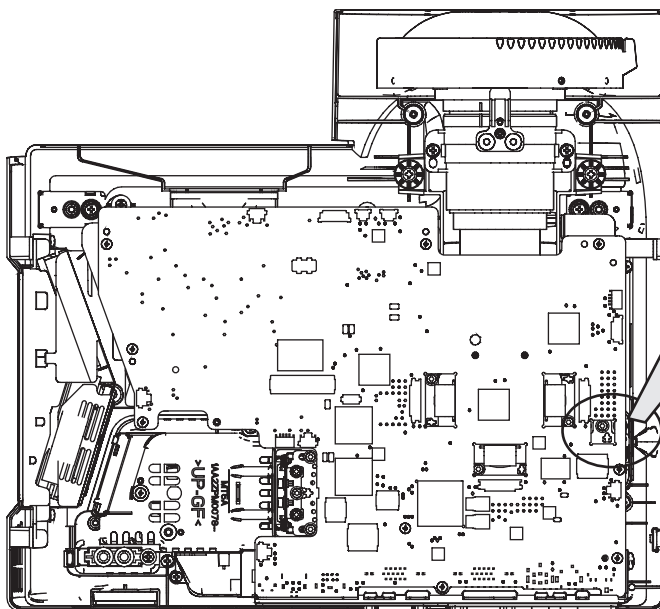


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

- 1 Turn the projector on by a state of without FPC cables.
- 2 Project all of lights on the screen.
- 3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
- 4 Tighten the screws **A** to fix the relay lens unit.



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

To enter the “Service Mode”, press and hold the **MENU button** on the remote control for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU button (increase)** or **KEYSTONE button (decrease)** on the remote control, and select the adjustment item no. by pressing the pointer **▲** or **▼ button**, and change the data value by pressing the **◀** or **▶ button**. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON-OFF button** on the remote control.

Service Mode		
Input		Video
Group	No.	Data
0	0	32
Ver.	1	00

Group No. Item No. Data value

Memory IC (IC1371) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the “Electrical Adjustments”.

The data of lamp replacement counter is stored in the Memory IC.

Please note that the lamp replace counter will be reset when the memory IC is replaced.

(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same

data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

In this case, the lamp replace counter can be kept the value as before.

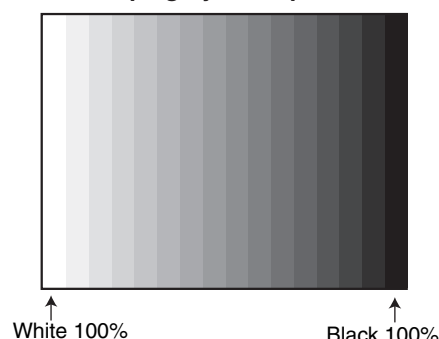
Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety. Before taking these adjustments, turn the projector for more than 10 minutes to stabilize the operation.

[Adjustment Condition]

- Input signal
 - Video signal 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
 - Computer signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
 - Component Video signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)
- Picture control mode..... "STANDARD" mode unless otherwise noted.

16 steps gray scale pattern



Note:

* Please refer to "Service Adjustment Menu Operation" for entering the service mode and adjusting the service data.

Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pins 1 (+) and 3 (-) of **K6D**.
2. Adjust the voltage by using **VR611** as following.

AC Input	Reading
230V	380V ±2V

Caution:

Be sure to connect the lamp when taking this adjustment.

* This adjustment is not required even if the power board is replaced because this adjustment is carried out before parts shipment.

1 Panel Type Check and Setting

1. Enter the service mode.
2. Panel Type Check

Select group no. "**290**", item no. "**0**". Check the data value as follows;

Data value: 0 For L-Type of LCD Panel

Data value: 20 For R-Type of LCD panel
3. Panel Type Setting

Select group no. "**290**", item no. "**1**" and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

* Refer to the item "LCD Panel/Prism Ass'y removal" for the panel type check.

Note:

Be careful to take this adjustment. The value of gamma adjustment data will be reset and cannot be restored if you change the mode of LCD panel type.



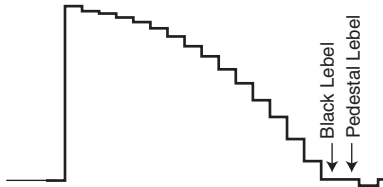
WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

2 Fan Control adjustment

1. Enter the service mode.
2. Connect a digital voltmeter to test point "**TPFANA**" (+) and chassis ground (-). Select group no. "**111**", item no. "**94**" and change data value to adjust voltage to be **5.2 ±0.1V**.
3. Connect a digital voltmeter to test point "**TPFANB**" (+) and chassis ground (-). Select item no. "**96**" and change data value to adjust voltage to be **6.3 ±0.1V**.

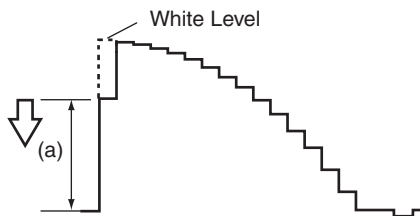
3 Pedestal adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP_R1" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP_B1" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



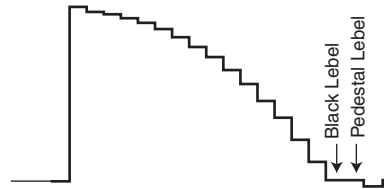
4 Gain adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP_R1" (+) and chassis ground (-).
6. Select item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP_B1" (+) and chassis ground (-).
8. Select item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



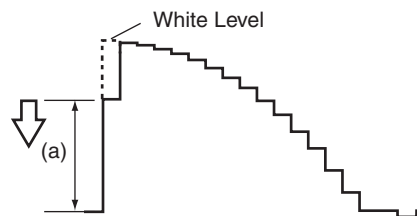
5 Pedestal adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Computer1 [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP_R1" (+) and chassis ground (-).
6. Select group no. "0", item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP_B1" (+) and chassis ground (-).
8. Select group no. "0", item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



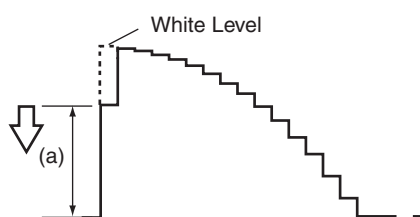
6 Gain adjustment [1080i]

1. Receive the 16-step grey scale component signal with **Computer1 [Component1080i]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "103", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.



7 Gain adjustment [Video]

1. Receive the 16-step grey scale composite signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "103", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.

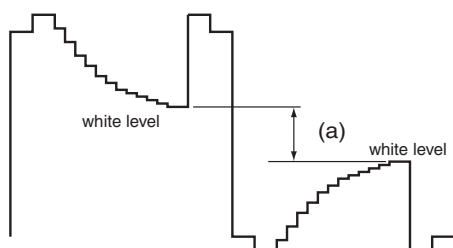


8 Common Center adjustment

1. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "9", item no. "92" and change data value to "2" to reduce the panel frequency.
4. Project only green light component to the screen.
5. Select group no. "10", item no. "1" and change data value to obtain the minimum flicker on the screen.
6. Project only red light component to the screen.
7. Select item no. "0" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "2" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "9", item no. "92" and change data value to "0" to reset the panel frequency.

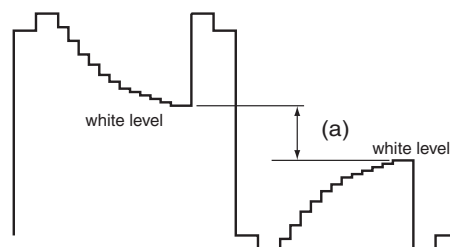
9 50% White adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "9", item no. "7" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



10 50% White adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP_G1" (+) and chassis ground (-).
4. Select group no. "9", item no. "7" and change data value to adjust amplitude "a" to be $1.6 \pm 0.1V$.



11 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode, select group no. "9" item no. "6" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

12 White Balance adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
2. Enter the service mode, select group no. "9" item no. "6" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

Note On White Uniformity Adjustment

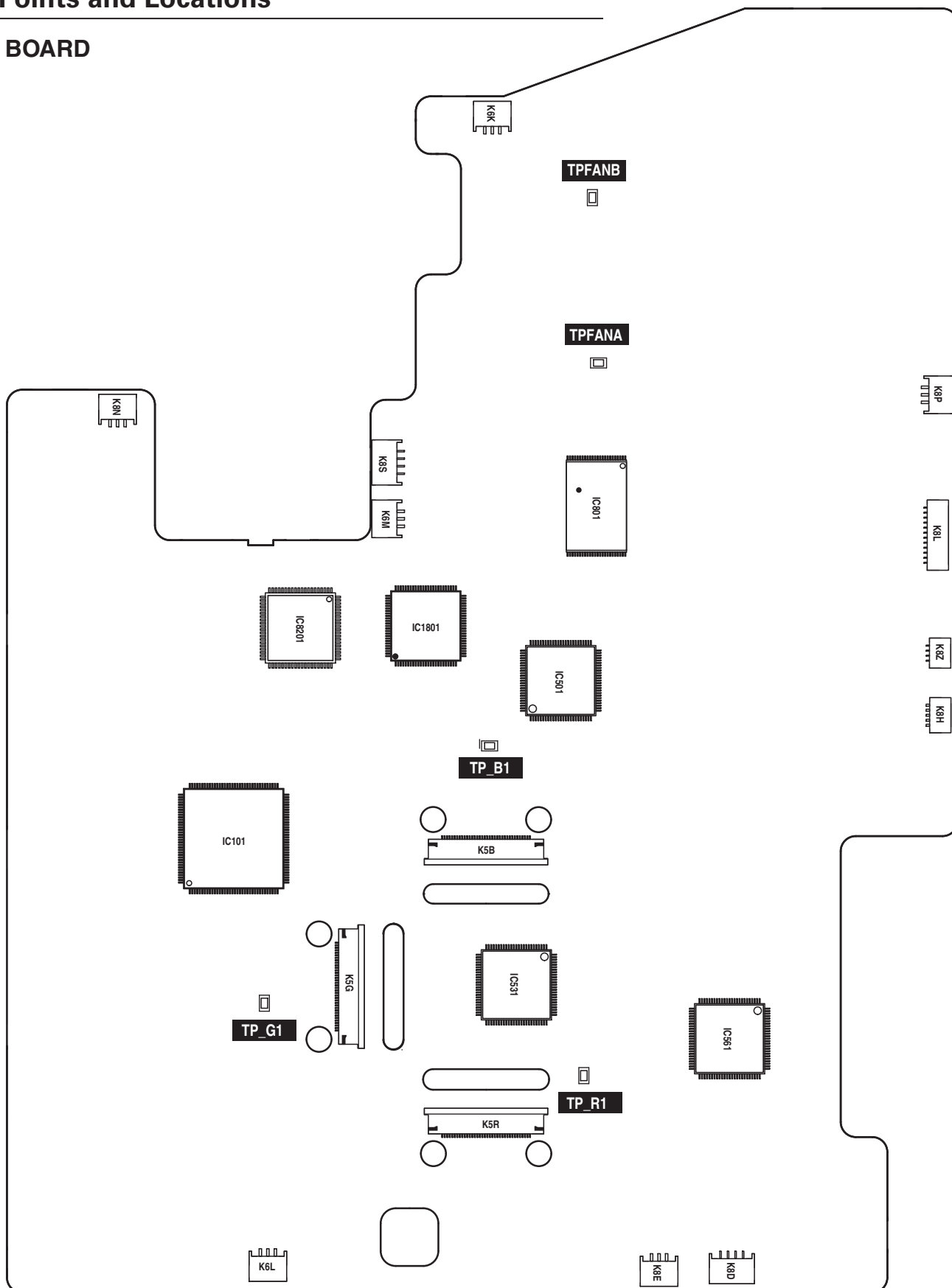
If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Item No.	NAME	Device	XGA					Range	Description
			PC	Component			Video		
				HDTV	480p	480i	NTSC	PAL	
Group 0	AD9883								
0	ADC G-OFFSET	AD9883	55	55					PC/AV 30KHz/AV 15KHz ※ Pedestal Adj.(PC),(1080i)
1	ADC R-OFFSET	AD9883	55	55					PC/AV 30KHz/AV 15KHz ※ Pedestal Adj.(PC),(1080i)
2	ADC B-OFFSET	AD9883	55	55					PC/AV 30KHz/AV 15KHz ※ Pedestal Adj.(PC),(1080i)
3	ADC G-GAIN	AD9883	70	128					PC/AV 30KHz/AV 15KHz ※ Gain Adj.(PC),(1080i)
4	ADC R-GAIN	AD9883	70	128					PC/AV 30KHz/AV 15KHz ※ Gain Adj.(PC),(1080i)
5	ADC B-GAIN	AD9883	70	128					PC/AV 30KHz/AV 15KHz ※ Gain Adj.(PC),(1080i)
8	RGB_MIX	AD9883		2					
10	VCO 0 Thresh MAX	AD9883		32					Maximum frequency to select VCO 0
11	VCO 1 Thresh MAX	AD9883		58					Maximum frequency to select VCO 1
12	VCO 2 Thresh MAX	AD9883		110					Maximum frequency to select VCO 2
20	CPC 0 Thresh MAX (VCO 0)	AD9883		0					Maximum frequency to select CPC0 at VCO 0
21	CPC 1 Thresh MAX (VCO 0)	AD9883		0					Maximum frequency to select CPC1 at VCO 0
22	CPC 2 Thresh MAX (VCO 0)	AD9883		15					Maximum frequency to select CPC2 at VCO 0
23	CPC 3 Thresh MAX (VCO 0)	AD9883		18					Maximum frequency to select CPC3 at VCO 0
24	CPC 4 Thresh MAX (VCO 0)	AD9883		23					Maximum frequency to select CPC4 at VCO 0
25	CPC 5 Thresh MAX (VCO 0)	AD9883		32					Maximum frequency to select CPC5 at VCO 0
26	CPC 6 Thresh MAX (VCO 0)	AD9883		255					Maximum frequency to select CPC6 at VCO 0
30	CPC 0 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC0 at VCO 1
31	CPC 1 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC1 at VCO 1
32	CPC 2 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC2 at VCO 1
33	CPC 3 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC3 at VCO 1
34	CPC 4 Thresh MAX (VCO 1)	AD9883		0					Maximum frequency to select CPC4 at VCO 1
35	CPC 5 Thresh MAX (VCO 1)	AD9883		48					Maximum frequency to select CPC5 at VCO 1
36	CPC 6 Thresh MAX (VCO 1)	AD9883		65					Maximum frequency to select CPC6 at VCO 1
40	CPC 0 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC0 at VCO 2
41	CPC 1 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC1 at VCO 2
42	CPC 2 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC2 at VCO 2
43	CPC 3 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC3 at VCO 2
44	CPC 4 Thresh MAX (VCO 2)	AD9883		0					Maximum frequency to select CPC4 at VCO 2
45	CPC 5 Thresh MAX (VCO 2)	AD9883		75					Maximum frequency to select CPC5 at VCO 2
46	CPC 6 Thresh MAX (VCO 2)	AD9883		95					Maximum frequency to select CPC6 at VCO 2
50	CPC 0 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC0 at VCO 3
51	CPC 1 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC1 at VCO 3
52	CPC 2 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC2 at VCO 3
53	CPC 3 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC3 at VCO 3
54	CPC 4 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC4 at VCO 3
55	CPC 5 Thresh MAX (VCO 3)	AD9883		0					Maximum frequency to select CPC5 at VCO 3
56	CPC 6 Thresh MAX (VCO 3)	AD9883		140					Maximum frequency to select CPC6 at VCO 3
60	PRECOAST (PC)	AD9883		3					
61	POSTCOAST(PC)	AD9883		3					
62	PRECOAST (PC Video)	AD9883		10					
63	POSTCOAST(PC Video)	AD9883		4					
64	PRECOAST (Component)	AD9883		10					Maximum frequency to select CPC6 at VCO 3
65	POSTCOAST(Component)	AD9883		4					Maximum frequency to select CPC7 at VCO 3
69	YGCVAL	AD9883		(42, 45), (42, 45), (45, 45), (45, 45)					CVBS(NTSC, PAL), SVIDEO, COMPO, SCART
70	FREQ OFFSET	AD9882		0					Offset at DCLK more than 82MHz for AD9882
102	SBCNT	AD9883		(109, 111), (104, 106), (108, 108), (102, 102)					CVBS(NTSC, PAL), SVIDEO, COMPO, SCART
124	HUE	AD9883		114					
146	LPFTHR	AD9883		0 / 0					SCART / OTHERS
147	ADCKS	AD9883		3 / 2					SCART / OTHERS
Group 1	UPD64012								
7	IMODE	uPD64012		0					
8	RGB_MIX	uPD64012		2					
9	AUTOCLR	uPD64012		1					
10	SIGDETLV	uPD64012		1					
11	SIGON	uPD64012		1					
12	SIGOFF	uPD64012		0					
13	TV50F	uPD64012		0					
14	TV60F	uPD64012		0					
15	SETINT	uPD64012		1					
16	SETPRG	uPD64012		0					
17	COLORM	uPD64012		0					
18	KILOFFT	uPD64012		0					
19	UNLINC	uPD64012		0					
20	DETOUT	uPD64012		3					
21	DETTIM	uPD64012		3					
22	CLKVA	uPD64012		1					
23	CLKKLL	uPD64012		40					
24	CODDEN	uPD64012		0					

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	25	CRDLY	uPD64012			1				
	26	PHBDL	uPD64012			0				
	27	PHRDL	uPD64012			0				
	28	CBOFS	uPD64012			0				
	29	CROFS	uPD64012			0				
	30	FRCENY	uPD64012			0				
	31	FRCENC	uPD64012			0				
	32	DLYCTL	uPD64012			8				
	33	OUTBITW	uPD64012			0				
	34	CLKOINV	uPD64012			1				
	35	RDOSEL	uPD64012			0				
	36	SQCBCR	uPD64012			0				
	37	ACTVH	uPD64012			128				
	38	HPOSI	uPD64012			128				
	39	HSPOS	uPD64012			132				
	40	HSWID	uPD64012			64				
	41	FSTAV	uPD64012			0				
	42	VSPOS	uPD64012			64				
	43	VSWID	uPD64012			2				
	44	VBKFAL	uPD64012			260				
	45	VBKRIS	uPD64012			16				
	46	INBKENA	uPD64012			0				
	47	YBLK	uPD64012			0				
	48	SYNCSEL	uPD64012			1				
	49	VDSEL	uPD64012			1				
	50	HSPOL	uPD64012			1				
	51	VSPOL	uPD64012			1				
	52	FIELDPOL	uPD64012			1				
	53	INHBKST	uPD64012			715				
	54	INHBKEN	uPD64012			853				
	55	INVBKST	uPD64012			260				
	56	INVBKLEN	uPD64012			16				
	57	FLDTHR	uPD64012			0				
	58	FILDIV	uPD64012			0				
	59	TSRTCNV	uPD64012			1				
				VIDEO NTSC/PAL	S-VIDEO NTSC/PAL	YCBCR 480i/575i	SCART 480i/575i			
	60	R_GAIN	uPD64012	22	22	22	10			
	61	G_GAIN	uPD64012	22	22	22	17			
	62	B_GAIN	uPD64012	22	22	22	10			
	63	FLTSEL	uPD64012			0				
	64	PEDIIRS2	uPD64012			0				
	65	SBCNT2	uPD64012			32				
	66	CBGAIN	uPD64012			32				
	67	CRGAIN	uPD64012			32				
	68	YGCAUTO	uPD64012			0				
	69	YGCVAL	uPD64012	42/45	42/45	45/45	45/45			
	70	YGCOFF	uPD64012			0				
	71	YGCMTVS	uPD64012			0				
	72	YPGAINS	uPD64012			2				
	73	YGCAVAL	uPD64012			9				
	74	MAXIIRS	uPD64012			0				
	75	PEDIIRS	uPD64012			0				
	76	YGCMODE1	uPD64012			0				
	77	YGCMODE2	uPD64012			0				
	78	YGCIRS	uPD64012			1				
	79	YCSV	uPD64012			0				
	80	YCOMA	uPD64012			2				
	81	YCOMB	uPD64012			2				
	82	YCSHY	uPD64012			0				
	83	YCSHC	uPD64012			0				
	84	COBPFOFF	uPD64012			0				
	85	YCSCOF	uPD64012			4				
	86	YCSSY	uPD64012			0				
	87	VLTYPE	uPD64012			1				
	88	YCSCC	uPD64012			0				
	89	VAPONV	uPD64012			0				
	90	VAPG	uPD64012			4				
	91	VAPI	uPD64012			16				
	92	PALCFIL	uPD64012			0				
	93	YCSY2F	uPD64012			3				
	94	TRF	uPD64012			0				
	95	TRGAIN	uPD64012			0				
	96	TRPAL	uPD64012			0				
	97	APCGAIN	uPD64012			1				
	98	ACCGAIN	uPD64012			1				
	99	ACCLIM	uPD64012			8				
	100	STNTSCM	uPD64012			0				
	101	STPALD	uPD64012			0				

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description
			PC	Component			Video		
				HDTV	480p	480i	NTSC	PAL	
			VIDEO	S-VIDEO	YCBCR	SCART			
			NTSC / PAL	NSTC / PAL	480i / 575i	480i / 575i			
	102	SBCNT	uPD64012	109 / 111	104 / 106	108 / 108	102 / 102		
	103	SBCLRU	uPD64012	128	128	128	141		
	104	SBCLRV	uPD64012	128	128	128	141		
	105	YCONR	uPD64012	0					
	106	CCONR	uPD64012	0					
	107	YCORB	uPD64012	0					
	108	YCOREN	uPD64012	1					
	109	YCORH	uPD64012	0					
	110	CCORB	uPD64012	0					
	111	CCOREN	uPD64012	0					
	112	LTIGAIN	uPD64012	0					
	113	CTIGAIN	uPD64012	0					
	114	LTITAP	uPD64012	2					
	115	LTICORE	uPD64012	3					
	116	CTITAP	uPD64012	2					
	117	CTICORE	uPD64012	3					
	118	SHPGAIN	uPD64012	176					
	119	SHPCHAR	uPD64012	2					
	120	SHPCORE	uPD64012	0					
	121	BRIGHT	uPD64012	512					
	122	OFRY	uPD64012	32					
	123	COLORG	uPD64012	128					
	124	HUE	uPD64012	114					
	125	CONT	uPD64012	128					
	126	APLWID	uPD64012	0					
	127	APLCOE	uPD64012	5					
	128	DCREGAIN	uPD64012	8					
	129	BLENGAIN	uPD64012	16					
	130	ABLENST	uPD64012	0					
	131	BLEXST	uPD64012	0					
	132	GAMGAIN	uPD64012	0					
	133	AGAMGAIN	uPD64012	0					
	134	GAMST	uPD64012	255					
	135	BLENCTL	uPD64012	0					
	136	YGACTL	uPD64012	0					
	137	ACLSEN	uPD64012	0					
	138	ACLST	uPD64012	255					
	139	YVBCTL	uPD64012	1					
	140	CRLPF	uPD64012	1					
	141	CBLPF	uPD64012	1					
	142	KILLV	uPD64012	8					
	143	KILLVCTL	uPD64012	9					
	144	VLM	uPD64012	0					
	145	VDCOR	uPD64012	0					
	146	LPFTHR	uPD64012	SCART: 0 COMPOSET/SVIDEO:0					
	147	ADCLK	uPD64012	SCART: 3 COMOSITE/SVIDEO:2					
Group 9	PANEL CONTROL								
0	R-SubGain	L3E07110	512/524/472/535/512/524/472/535				1-1023		
1	G-SubGain	L3E07110	512/524/472/472/512/524/472/472				1-1023		
2	B-SubGain	L3E07110	512/524/472/472/512/524/472/472				1-1023	PCStandard/PCDynamic/PCReal/PCBlackBoard/ AVStandard/AVDnamic/AVCinema/AVBlackBoard	
3	R-SubBright	L3E07110	0/0/24/16/0/0/24/16				1-1023		
4	G-SubBright	L3E07110	0/0/24/16/0/0/24/16				1-1023		
5	B-SubBright	L3E07110	0/0/24/16/0/0/24/16				1-1023		
6	R-GammaShift	L3E07110	0/0/0/0				1-1023	PC/DVI/HDCP/VIDEO *: White Balance Adj.(PC),(Video)	
7	G-GammaShift	L3E07110	0/0/0/0				1-1023	When adjusting G, the value of R and B changes together *: 50%-White Adj.(PC),(Video)	
8	B-GammaShift	L3E07110	0/0/0/0				1-1023	PC/DVI/HDCP/VIDEO *: White Balance Adj.(PC),(Video)	
9	R_ReferH	L3E07110	Normal:1000/Ceiling:1000				1-1023		
10	R_ReferL	L3E07110	Normal:304/Ceiling:304				1-1023		
11	G_ReferH	L3E07110	Normal:1000/Ceiling:1000				1-1023	When adjusting G, the value of R and B changes together	
12	G_ReferL	L3E07110	Normal:304/Ceiling:304				1-1023	When adjusting G, the value of R and B changes together	
13	B_ReferH	L3E07110	Normal:1000/Ceiling:1000				1-1023		
14	B_ReferL	L3E07110	Normal:304/Ceiling:304				1-1023		
15	DXOUTR	L3E07110	237				1-1023		
16	DXOUTG	L3E07110	237				1-1023		
17	DXOUTB	L3E07110	237				1-1023		
18	H_Change_Pos	L3E07110	3				0-256		
19	SH_Base	L3E07110	273				0-4095		
20	NRG_Pos	L3E07110	62				0-128		
21	NRG_Width	L3E07110	53				0-255		
22	OSD_Pos	L3E07110	2				0-3		
23	OSD_Ptn	L3E07110	0				0-7		
24	GammaCtrl	L3E07110	1				0-1		
25	REF_GatePos	L3E07110	5				0-1023		
26	REF_GateDur	L3E07110	204				0-1023		
27	R-BasePos	L3E07110	8				0-15		
28	G-BasePos	L3E07110	8				0-15	When adjusting G, the value of R and B changes together	

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	29	B-BasePos	L3E07110		8				0-15	
	30	RGB-Ajust	L3E07110		0				0-7	
	31	RGB-AdjLv	L3E07110		0				0-1023	
	32	LineR0	L3E07110		8				0-255	
	33	LineR1	L3E07110		4				0-255	
	34	LineR2	L3E07110		1				0-255	
	35	LineR3	L3E07110		255				0-255	
	36	LineR4	L3E07110		252				0-255	
	37	LineG0	L3E07110		8				0-255	
	38	LineG1	L3E07110		4				0-255	
	39	LineG2	L3E07110		1				0-255	
	40	LineG3	L3E07110		255				0-255	
	41	LineG4	L3E07110		252				0-255	
	42	LineB0	L3E07110		8				0-255	
	43	LineB1	L3E07110		4				0-255	
	44	LineB2	L3E07110		1				0-255	
	45	LineB3	L3E07110		255				0-255	
	46	LineB4	L3E07110		252				0-255	
	47	GhostR-Pos	L3E07110		8				0-15	
	48	GhostG-Pos	L3E07110		8				0-15	When adjusting G, the value of R and B changes together
	49	GhostB-Pos	L3E07110		8				0-15	
	50	GhostR-Cent	L3E07110		0				0-2047	
	51	GhostR-Start	L3E07110		128				0-255	
	52	GhostR-End	L3E07110		128				0-255	
	53	GhostG-Cent	L3E07110		0				0-2047	When adjusting G, the value of R and B changes together
	54	GhostG-Start	L3E07110		128				0-255	
	55	GhostG-End	L3E07110		128				0-255	
	56	GhostB-Cent	L3E07110		0				0-2047	
	57	GhostB-Start	L3E07110		128				0-255	
	58	GhostB-End	L3E07110		128				0-255	
	59	BlockR1	L3E07110		0				0-2047	
	60	BlockG1	L3E07110		0				0-2047	When adjusting G, the value of R and B changes together
	61	BlockB1	L3E07110		0				0-2047	
	62	BlockR2	L3E07110		0				0-2047	
	63	BlockR2	L3E07110		0				0-2047	
	64	BlockR2	L3E07110		0				0-2047	
	65	ReverseR	L3E07110		0				0-2047	
	66	ReverseG	L3E07110		0				0-2047	When adjusting G, the value of R and B changes together
	67	ReverseB	L3E07110		0				0-2047	
	68	BackCrossR-Cent	L3E07110		1				0-2047	
	69	BackCrossR-Start	L3E07110		128				0-255	
	70	BackCrossR-End	L3E07110		128				0-255	
	71	BackCrossG-Cent	L3E07110		1				0-2047	When adjusting G, the value of R and B changes together
	72	BackCrossG-Start	L3E07110		128				0-255	
	73	BackCrossG-End	L3E07110		128				0-255	
	74	BackCrossB-Cent	L3E07110		1				0-2047	
	75	BackCrossB-Start	L3E07110		128				0-255	
	76	BackCrossB-End	L3E07110		128				0-255	
	77	ColshdSelect	L3E07110		1				0-1	
	78	R-Min	L3E07110		286				0-1023	
	79	R-Mid2	L3E07110		477				0-1023	
	80	R-Mid1	L3E07110		601				0-1023	
	81	R-Max	L3E07110		694				0-1023	
	82	G-Min	L3E07110		286				0-1023	
	83	G-Mid2	L3E07110		477				0-1023	
	84	G-Mid1	L3E07110		601				0-1023	
	85	G-Max	L3E07110		694				0-1023	
	86	B-Min	L3E07110		286				0-1023	
	87	B-Mid2	L3E07110		477				0-1023	
	88	B-Mid1	L3E07110		601				0-1023	
	89	B-Max	L3E07110		694				0-1023	
	90	H-OutPos	L3E07110		120				0-2047	
	91	OutAreaLv	L3E07110		0				0-1023	
	92	FlickerAdj	L3E07110		0				0-2	※ Common Center Adj.
	93	FRC_Bit	L3E07110		2				0-2	
	94	FrontCTalkR-Cent	L3E07110		0				0-2047	
	95	FrontCTalkR-Start	L3E07110		125				0-255	
	96	FrontCTalkR-End	L3E07110		128				0-255	
	97	FrontCTalkG-Cent	L3E07110		0				0-2047	
	98	FrontCTalkG-Start	L3E07110		125				0-255	
	99	FrontCTalkG-End	L3E07110		128				0-255	
	100	FrontCTalkB-Cent	L3E07110		0				0-2047	
	101	FrontCTalkB-Start	L3E07110		125				0-255	
	102	FrontCTalkB-End	L3E07110		128				0-255	
	103	R-DCOffset-NGain	L3E07110		Normal:0/Ceiling:0				0-255	
	104	R-DCOffset-N1	L3E07110		Normal:0/Ceiling:0				0-511	
	105	R-DCOffset-N2	L3E07110		Normal:0/Ceiling:0				0-511	
	106	R-DCOffset-N3	L3E07110		Normal:0/Ceiling:0				0-511	
	107	R-DCOffset-N4	L3E07110		Normal:0/Ceiling:0				0-511	
	108	R-DCOffset-N5	L3E07110		Normal:0/Ceiling:0				0-511	

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description	
			PC	Component			Video				
				HDTV	480p	480i	NTSC	PAL			
	109	R-DCOffset-N6	L3E07110	Normal:0/Ceiling:0						0-511	
	110	R-DCOffset-N7	L3E07110	Normal:0/Ceiling:0						0-511	
	111	R-DCOffset-N8	L3E07110	Normal:0/Ceiling:0						0-511	
	112	R-DCOffset-N9	L3E07110	Normal:0/Ceiling:0						0-511	
	113	R-DCOffset-N10	L3E07110	Normal:0/Ceiling:0						0-511	
	114	R-DCOffset-N11	L3E07110	Normal:0/Ceiling:0						0-511	
	115	R-DCOffset-N12	L3E07110	Normal:0/Ceiling:0						0-511	
	116	G-DCOffset-NGain	L3E07110	Normal:0/Ceiling:0						0-255	
	117	G-DCOffset-N1	L3E07110	Normal:0/Ceiling:0						0-511	
	118	G-DCOffset-N2	L3E07110	Normal:0/Ceiling:0						0-511	
	119	G-DCOffset-N3	L3E07110	Normal:0/Ceiling:0						0-511	
	120	G-DCOffset-N4	L3E07110	Normal:0/Ceiling:0						0-511	
	121	G-DCOffset-N5	L3E07110	Normal:0/Ceiling:0						0-511	
	122	G-DCOffset-N6	L3E07110	Normal:0/Ceiling:0						0-511	
	123	G-DCOffset-N7	L3E07110	Normal:0/Ceiling:0						0-511	
	124	G-DCOffset-N8	L3E07110	Normal:0/Ceiling:0						0-511	
	125	G-DCOffset-N9	L3E07110	Normal:0/Ceiling:0						0-511	
	126	G-DCOffset-N10	L3E07110	Normal:0/Ceiling:0						0-511	
	127	G-DCOffset-N11	L3E07110	Normal:0/Ceiling:0						0-511	
	128	G-DCOffset-N12	L3E07110	Normal:0/Ceiling:0						0-511	
	129	B-DCOffset-NGain	L3E07110	Normal:0/Ceiling:0						0-255	
	130	B-DCOffset-N1	L3E07110	Normal:0/Ceiling:0						0-511	
	131	B-DCOffset-N2	L3E07110	Normal:0/Ceiling:0						0-511	
	132	B-DCOffset-N3	L3E07110	Normal:0/Ceiling:0						0-511	
	133	B-DCOffset-N4	L3E07110	Normal:0/Ceiling:0						0-511	
	134	B-DCOffset-N5	L3E07110	Normal:0/Ceiling:0						0-511	
	135	B-DCOffset-N6	L3E07110	Normal:0/Ceiling:0						0-511	
	136	B-DCOffset-N7	L3E07110	Normal:0/Ceiling:0						0-511	
	137	B-DCOffset-N8	L3E07110	Normal:0/Ceiling:0						0-511	
	138	B-DCOffset-N9	L3E07110	Normal:0/Ceiling:0						0-511	
	139	B-DCOffset-N10	L3E07110	Normal:0/Ceiling:0						0-511	
	140	B-DCOffset-N11	L3E07110	Normal:0/Ceiling:0						0-511	
	141	B-DCOffset-N12	L3E07110	Normal:0/Ceiling:0						0-511	
	142	R-DCOffset-PGain	L3E07110	Normal:0/Ceiling:0						0-255	
	143	R-DCOffset-P1	L3E07110	Normal:0/Ceiling:0						0-511	
	144	R-DCOffset-P2	L3E07110	Normal:0/Ceiling:0						0-511	
	145	R-DCOffset-P3	L3E07110	Normal:0/Ceiling:0						0-511	
	146	R-DCOffset-P4	L3E07110	Normal:0/Ceiling:0						0-511	
	147	R-DCOffset-P5	L3E07110	Normal:0/Ceiling:0						0-511	
	148	R-DCOffset-P6	L3E07110	Normal:0/Ceiling:0						0-511	
	149	R-DCOffset-P7	L3E07110	Normal:0/Ceiling:0						0-511	
	150	R-DCOffset-P8	L3E07110	Normal:0/Ceiling:0						0-511	
	151	R-DCOffset-P9	L3E07110	Normal:0/Ceiling:0						0-511	
	152	R-DCOffset-P10	L3E07110	Normal:0/Ceiling:0						0-511	
	153	R-DCOffset-P11	L3E07110	Normal:0/Ceiling:0						0-511	
	154	R-DCOffset-P12	L3E07110	Normal:0/Ceiling:0						0-511	
	155	G-DCOffset-PGain	L3E07110	Normal:0/Ceiling:0						0-255	
	156	G-DCOffset-P1	L3E07110	Normal:0/Ceiling:0						0-511	
	157	G-DCOffset-P2	L3E07110	Normal:0/Ceiling:0						0-511	
	158	G-DCOffset-P3	L3E07110	Normal:0/Ceiling:0						0-511	
	159	G-DCOffset-P4	L3E07110	Normal:0/Ceiling:0						0-511	
	160	G-DCOffset-P5	L3E07110	Normal:0/Ceiling:0						0-511	
	161	G-DCOffset-P6	L3E07110	Normal:0/Ceiling:0						0-511	
	162	G-DCOffset-P7	L3E07110	Normal:0/Ceiling:0						0-511	
	163	G-DCOffset-P8	L3E07110	Normal:0/Ceiling:0						0-511	
	164	G-DCOffset-P9	L3E07110	Normal:0/Ceiling:0						0-511	
	165	G-DCOffset-P10	L3E07110	Normal:0/Ceiling:0						0-511	
	166	G-DCOffset-P11	L3E07110	Normal:0/Ceiling:0						0-511	
	167	G-DCOffset-P12	L3E07110	Normal:0/Ceiling:0						0-511	
	168	B-DCOffset-PGain	L3E07110	Normal:0/Ceiling:0						0-255	
	169	B-DCOffset-P1	L3E07110	Normal:0/Ceiling:0						0-511	
	170	B-DCOffset-P2	L3E07110	Normal:0/Ceiling:0						0-511	
	171	B-DCOffset-P3	L3E07110	Normal:0/Ceiling:0						0-511	
	172	B-DCOffset-P4	L3E07110	Normal:0/Ceiling:0						0-511	
	173	B-DCOffset-P5	L3E07110	Normal:0/Ceiling:0						0-511	
	174	B-DCOffset-P6	L3E07110	Normal:0/Ceiling:0						0-511	
	175	B-DCOffset-P7	L3E07110	Normal:0/Ceiling:0						0-511	
	176	B-DCOffset-P8	L3E07110	Normal:0/Ceiling:0						0-511	
	177	B-DCOffset-P9	L3E07110	Normal:0/Ceiling:0						0-511	
	178	B-DCOffset-P10	L3E07110	Normal:0/Ceiling:0						0-511	
	179	B-DCOffset-P11	L3E07110	Normal:0/Ceiling:0						0-511	
	180	B-DCOffset-P12	L3E07110	Normal:0/Ceiling:0						0-511	
	181	ENBX-R	L3E07110	0						0-127	
	182	ENBX-G	L3E07110	0						0-127	
	183	ENBX-B	L3E07110	0						0-127	
	184	DXOutPos	L3E07110	0						0-1	
Group 10	PANEL SERVICE										
0	R-LCCOM	L3E06150	300						0-511	※ Common Center Adj.	
1	G-LCCOM	L3E06150	300						0-511	※ Common Center Adj.	

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description	
			PC	Component			Video				
				HDTV	480p	480i	NTSC	PAL			
	2	B-LCCOM	L3E06150			300				0-511	*: Common Center Adj.
	3	R-LCCOM-Gain	L3E06150			191				0-255	
	4	G-LCCOM-Gain	L3E06150			191				0-255	
	5	B-LCCOM-Gain	L3E06150			191				0-255	
	6	R-LCCOM-Bright	L3E06150			0				0-255	
	7	G-LCCOM-Bright	L3E06150			0				0-255	
	8	B-LCCOM-Bright	L3E06150			0				0-255	
	9	R-LCCOM-Cent	L3E06150			18				0-63	
	10	G-LCCOM-Cent	L3E06150			18				0-63	
	11	B-LCCOM-Cent	L3E06150			18				0-63	
	12	R-ENBX-PW	L3E01060			11				0-127	
	13	G-ENBX-PW	L3E01060			11				0-127	
	14	B-ENBX-PW	L3E01060			11				0-127	
	15	R-DXIN	L3E01060			9				0-255	Link with Group 10 - No 18
	16	G-DXIN	L3E01060			9				0-255	Link with Group 10 - No 19
	17	B-DXIN	L3E01060			9				0-255	Link with Group 10 - No 20
	18	R-CLXIN	L3E01060			9				0-255	Link with Group 10 - No 15
	19	G-CLXIN	L3E01060			9				0-255	Link with Group 10 - No 16
	20	B-CLXIN	L3E01060			9				0-255	Link with Group 10 - No 17
	21	R-ENBX1IN	L3E01060			27				0-255	
	22	G-ENBX1IN	L3E01060			27				0-255	
	23	B-ENBX1IN	L3E01060			27				0-255	
Group 100	OPTION (Lamp Time, Service Port etc)										
	1	RS232C Baudrate	PW186			0					0 : 19200bps 1: 9600bps
	2	PJLink Enable	MCI			1				0-1	0:Disable 1:Enable
	5	PW Debug Command Enable	PW186			1				0-1	0:Disable 1:Enable(Sanyo Serial Command Disable)(Not memorized)
	6	Device Refresh Disable	PW186			0				0-1	0:Enable 1:Disable(Not memorized)
	20	Projector Time Reset	PW186			0				0-20	Resets Projector time when the value is set to 10.
	21	Lamp Warning Time (HIGH)	PW186			1500				0-10000	Normal lamp warning time
	22	Lamp Warning Time (NORMAL)	PW186			3000				0-10000	Eco lamp warning time
	30	Lamp life test enable	PW186			0				0-1	0:Disable 1:Enable For safety test purpose
	31	Lamp On time for life test	PW186			1				1-720	For test purpose
	32	Lamp Off time for life test	PW186			3				1-720	For test purpose
	33	Lamp total time for life test	PW186			0				0-32767	For test purpose
	34	Input Search Wait Time	PW186			2300				1000-3000	Waiting time of Input Search Switch (ms)
	40	Memory viewer please wait display disable	PW186			0				0-1	0: disable 1:Enable, Prohibit a part of Memory Viewer function
	50	RC Mode	PW186			0				0-1	RC Code: 0: Promethean
Group 101	OPTION (Signal Processing)										
	2										
	3	Frame Lock SW	PW186			0					0:Not V-Sync, 1:V-Sync
	5	Non Brand	PW186			0					0:Normal1:Non Brand
	6	Monitor Error Count	PW186			5					Threshold value of Monitor error count
	7	CABLE SW	PW186			0					Cable switch
Group 103	PW186 Image Control										
				PC	COMPONENT			VIDEO			
			PC	HDTV	480p	480i	VIDEO	SCART			
	0	Center Contrast	PW186	600	512	650	512	512			PW186 CONTRAST Center adjustment *: Gain Adj. (Video)
	1	Center Brightness	PW186	512	512	512	512	512			PW186 BRIGHTNESS Center adjustment
	2	Center Color	PW186	512	475	475	475	425			PW186 COLOR Center adjustment
	3	Center Tint	PW186	90	82	82	82	82			PW186 TINT Center adjustment
	4	Center Sharpness	PW186	16	16	16	16	16			PW186 SHARPNESS Center adjustment
	5	Alpha Contrast	PW186	40	40	40	40	40			PW186 CONTRAST Range adjustment
	6	Alpha Brightness	PW186	140	140	140	140	140			PW186 BRIGHTNESS Range adjustment
	7	Alpha Color	PW186	70	70	70	70	70			PW186 COLOR Range adjustment
	8	Alpha Tint	PW186	10	10	10	10	10			PW186 TINT Range adjustment
	9	Alpha Sharpness	PW186	10	10	10	10	10			PW186 SHARPNESS Range adjustment
Group 104	PW186 Auto PC Adjust Control										
	0	AutoPCAdjustEnable	PW186			0				0-1	0:Auto1:Prohibit Auto PC Adj.
	1	Frequency Step	PW186			2				0-3	
	2	Frequency Threshold	PW186			5				0-10	
	3	Fine Phase	PW186			1				0-1	
	4	BLKDET	PW186			1				0-3	Black Level Detecte Area
	5	PHASEMSK	PW186			0				0-3	Phase Detection Filter0:Effect all bits1:Disable lower 1 bit2:Disable lower 2 bits 3:Disable lower 3 bits
Group 105	Custom Mode										
	0	H/V	PW186			0				0-1	Link H and V, 1: On, 0: Off
	1	Scale-H	PW186			100/100/100/100				0-200	Vertical Scaler Edit (Unit %) (PC, Component)/(Scart)/(Composite, S-video)
	2	Scale-V	PW186			100/100/100/100				0-200	Vertical Position Correction (Unit %)
	3	RESET/STORE	PW186			100/100/100/100				0-200	Reset Vertical Aspect 0:Reset, 1:Save0
	4	Horizontal Scaler	PW186			100/100/100/100				0-200	Horizontal Scaler Edit (Unit %)
	5	CUSTOM ON/OFF	PW186			0				0-1	*Not used
Group 110	Dimmer Processing for Ballast type										
	0	DIMMER_CTRL_LEVEL1	PW186			11				0-255	
	1	DIMMER_CTRL_LEVEL2	PW186			21				0-255	

Electrical Adjustments

Item No.	NAME	Device	XGA					Range	Description	
			PC	Component			Video			
				HDTV	480p	480i	NTSC			PAL
	2	DIMMER_CTRL_LEVEL3	PW186			32			0-255	
	3	DIMMER_CTRL_LEVEL4	PW186			42			0-255	
	4	DIMMER_CTRL_LEVEL5	PW186			53			0-255	
	5	DIMMER_CTRL_LEVEL6	PW186			63			0-255	
	6	DIMMER_CTRL_LEVEL7	PW186			74			0-255	
	7	DIMMER_CTRL_LEVEL8	PW186			84			0-255	
	8	DIMMER_CTRL_LEVEL9	PW186			95			0-255	
	9	DIMMER_CTRL_LEVEL10	PW186			105			0-255	
	10	DIMMER_CTRL_LEVEL11	PW186			255			0-255	
	11	DIMMER_CTRL_LEVEL12	PW186			255			0-255	
	12	DIMMER_CTRL_LEVEL13	PW186			255			0-255	
	13	DIMMER_CTRL_LEVEL14	PW186			255			0-255	
	14	DIMMER_CTRL_LEVEL15	PW186			255			0-255	
	15	DIMMER_AVERAGE_POINT	PW186			4			0-15	Avarage point of Luminance data for Dimmer
	16	DIMMER_AVERAGE_DATA	PW186			-			0-255	Avarage value of Luminance data for Dimmer, Read only
	17	DIMMER_LEVEL_AUTO	PW186			-			0-15	Present Dimmer Level
	18	DIMMER_LEVEL_NORMAL	PW186			10			0-15	Dimmer Level at Normal
	19	DIMMER_LEVEL_ECO	PW186			0				Dimmer Level at Eco
	20	Lamp check enable	PW186			1				1: Lamp Fail Detection On (White 50% back), 0: Off (Blue 100% back)
	21	VOLTAGE_LEVEL	PW186			-				Lamp Voltage, Read only 8bit value
	22	Lamp PWM PRES AV50Hz	PW186			68			0-255	PREFPRES register setting for AV50Hz Lamp PWM output
	23	Lamp PWM PRES AV60Hz	PW186			68			0-255	PREFPRES register setting for AV60Hz Lamp PWM output
	24	Lamp PWM PRES Unlock	PW186			68			0-255	PREFPRES register setting for Un-Framlock Lamp PWM output
	25	Lamp PWM PRES PC A	PW186			2			0-255	Parameter A at PC Framlock Lamp PWM output
	26	Lamp PWM PRES PC B	PW186			3			0-255	Parameter B at PC Framlock Lamp PWM output
Group 111	FAN CONTROL									
				Normal	Ceiling	Normal/Hi-land	Ceiling/Hi-land			
	0	FAN_TEMP_A_WARNING		54	53	54	56		30-100	Temp A to judge temperature Error (Memorized)for Outside temp.
	1	FAN_TEMP_B_WARNING		56	55	58	58		30-100	Temp B to judge temperature Error (Memorized)for Panel temp.
	2	FAN_TEMP_C_WARNING		68	68	62	68		30-100	Temp C to judge temperature Error (Memorized)for Lamp temp.
	3	FAN_TEMP_B-A_WARNING				100			0-100	Temp B-A to judge temperature Error (Memorized)for Filter cloggle detection
	4	FAN_TEMP_C-A_WARNING				100			0-100	Temp C-A to judge temperature Error (Memorized)for Filter cloggle detection
	5	FAN_1_SPEED_MONI				-				Fan Speed Monitor (Read only)
	6	FAN_2_SPEED_MONI				-				Fan Speed Monitor (Read only)
	7	FAN_TEMP_A_MONI				-				
	8	FAN_TEMP_B_MONI				-		-		
	9	FAN_TEMP_C_MONI				-		-		
	10	Lamp Mode				2			0-2	0: High, 1: Auto, 2: Normal
	11	Fan Ctrl Mode				0			0-1	0: Normal, 1: Ceiling Switching
	12	FAN_SW				0			0-3	0:Auto, 1:Max, 2:Min, 3:Manual Auto/Max/Min/ManualSwitching
	13	Hi-Land SW				0			0-5	0: Normal mode 1:Highland mode 2~4: Highland mode 1~3 5:Fixed
	14	Safety FAN Control Fix SW				0				For Safety Test FAN Control 0:Normal, 1:Normal Min, 2:Normal Max, 3:Eco Min, 4:Eco Max (Not Memorized),1-4 Temp Error at 100°C
	15	FAN_1_SPEED_CTRL		Normal: 135 / Ceiling: 135 / Rear: 135					0-255	Manual Adj. mode at FAN_CONTROL_SW=3 Norma
	16	FAN_2_SPEED_CTRL		Normal: 135 / Ceiling: 135 / Rear: 135					0-255	Manual Adj. mode at FAN_CONTROL_SW=3 Normal
	17	TEMP_UPWARNING_TIME_A (OUTSIDE)				3			0-5	Setup Error Temp. for a duration of X minites started from Power ON
	18	TEMP_UPWARNING_TIME_B (PANEL)				3			0-5	Setup Error Temp. for a duration of X minites started from Power ON
	19	TEMP_UPWARNING_TIME_C (LAMP)				3			0-5	Setup Error Temp. for a duration of X minites started from Power ON
	20	TEMP_UPWARNING_TIME_B-A				3			0-5	Setup Error Temp. for a duration of X minites started from Power ON
	21	TEMP_UPWARNING_TIME_C-A				3			0-5	Setup Error Temp. for a duration of X minites started from Power ON
	22	UPWARNING_TEMP_A (OUTSIDE)				8				Increase X°C for Error Temp. for a limited time started from Power ON
	23	UPWARNING_TEMP_B (PANEL)				8				Increase X°C for Error Temp. for a limited time started from Power ON
	24	UPWARNING_TEMP_C (LAMP)				8				Increase X°C for Error Temp. for a limited time started from Power ON
	25	UPWARNING_TEMP_B-A				8				Increase X°C for Error Temp. for a limited time started from Power ON
	26	UPWARNING_TEMP_C-A				8				Increase X°C for Error Temp. for a limited time started from Power ON
	27	FAN_1_START_SPEED				70			0-255	Start Volotage 7V Fan sereis 1
	28	FAN_2_START_SPEED				70			0-255	Start Volotage 7V Fan sereis 1
	29									
	30									
	31	FAN_1_COOLING_SPEED				100			0-255	Fan series 1 Voltage at PowerOFF(Fan Model1)
	32	FAN_2_COOLING_SPEED				100			0-255	Fan series 2 Voltage at PowerOFF(Fan Model1)
	33	FAN_1_TEMPERROR_SPEED				135			0-255	Fan series 1 Voltage at Temp Error
	34	FAN_2_TEMPERROR_SPEED				135			0-255	Fan series 2 Voltage at Temp Error
	35	Cooling Time L1				3			1-15	Cooling time setting for Fan Mode L1 (x30sec)1:30sec3:90sec15:450sec
	36	Cooling Time L2				4			1-15	Cooling time setting for Fan Mode L2 (x30sec)1:30sec3:90sec15:450sec
	37	IGNORE_TEMP_CHANGE_RATE				10			5-50	Margin setting
	38	IGNORE_TEMP_CHANGE_TIMES				5			1-9	Margin setting
	39	SVCFAN_ITEM_TEMP_A_BASE_RAISING				1			1-10	Temo A Shutdown Base up Temp. at Eco
	40									
	41									
	42	NOR_TEMP_FAN1_MIN				46			0-255	FAN1 Control start temp.at Normal
	43	NOR_TEMP_FAN1_MAX				50			0-255	FAN1 Control end temp. at Normal

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	44	NOR_TEMP_FAN2_MIN				46			0-255	FAN2 Control start temp.at High
	45	NOR_TEMP_FAN2_MAX				50			0-255	FAN2 Control end temp. at High
	46	NOR_VALU_FAN1_MIN				72			0-255	FAN1 Control Min at High (0:0V, 255:25.5V)
	47	NOR_VALU_FAN1_MAX				135			0-255	FAN1 Control Max at High
	48	NOR_VALU_FAN2_MIN				90			0-255	FAN2 Control Min at High
	49	NOR_VALU_FAN2_MAX				130			0-255	FAN2 Control Max at High
	50	ECO_TEMP_FAN1_MIN				47			0-255	FAN1 Control start temp.at Normal
	51	ECO_TEMP_FAN1_MAX				50			0-255	FAN1 Control end temp. at Normal
	52	ECOTEMP_FAN2_MIN				47			0-255	FAN2 Control start temp.at Normal
	53	ECO_TEMP_FAN2_MAX				50			0-255	FAN2 Control end temp. at Normal
	54	ECO_VALU_FAN1_MIN				55			0-255	FAN1 Control Min at Normal
	55	ECO_VALU_FAN1_MAX				115			0-255	FAN1 Control Max at Normal
	56	ECO_VALU_FAN2_MIN				72			0-255	FAN2 Control Min at Normal
	57	ECO_VALU_FAN2_MAX				86			0-255	FAN2 Control Max at Normal
	58	HINOR_TEMP_FAN1_MIN				40			0-255	FAN1 Control start temp.at Highland High
	59	HINOR_TEMP_FAN1_MAX				44			0-255	FAN1 Control end temp. at Highland High
	60	HINOR_TEMP_FAN2_MIN				40			0-255	FAN2 Control start temp.at Highland High
	61	HINOR_TEMP_FAN2_MAX				44			0-255	FAN2 Control end temp. at Highland High
	62	HINOR_VALU_FAN1_MIN				135			0-255	FAN1 Control Min at Highland High (0:0V, 255:25.5V)
	63	HINOR_VALU_FAN1_MAX				135			0-255	FAN1 Control Max at Highland High
	64	HINOR_VALU_FAN2_MIN				130			0-255	FAN2 Control Min at Highland High
	65	HINOR_VALU_FAN2_MAX				130			0-255	FAN2 Control Max at Highland High
	66	HIECO_TEMP_FAN1_MIN				40			0-255	FAN1 Control start temp.at Highland Normal
	67	HIECO_TEMP_FAN1_MAX				44			0-255	FAN1 Control end temp. at Highland Normal
	68	HIECOTEMP_FAN2_MIN				40			0-255	FAN2 Control start temp.at Highland Normal
	69	HIECO_TEMP_FAN2_MAX				44			0-255	FAN2 Control end temp. at Highland Normal
	70	HIECO_VALU_FAN1_MIN				120			0-255	FAN1 Control Min at Highland Normal
	71	HIECO_VALU_FAN1_MAX				120			0-255	FAN1 Control Max at Highland Normal
	72	HIECO_VALU_FAN2_MIN				91			0-255	FAN2 Control Min at Highland Normal
	73	HIECO_VALU_FAN2_MAX				91			0-255	FAN2 Control Max at Highland Normal
	74	CLNOR_TEMP_FAN1_MIN				46			0-255	FAN1 Control start temp.at Ceiling High
	75	CINOR_TEMP_FAN1_MAX				50			0-255	FAN1 Control end temp. at Ceiling High
	76	CLNOR_TEMP_FAN2_MIN				46			0-255	FAN2 Control start temp.at Ceiling High
	77	CLNOR_TEMP_FAN2_MAX				50			0-255	FAN2 Control end temp. at Ceiling High
	78	CLNOR_VALU_FAN1_MIN				72			0-255	FAN1 Control Min at Ceiling High (0:0V, 255:25.5V)
	79	CLNOR_VALU_FAN1_MAX				135			0-255	FAN1 Control Max at Ceiling High
	80	CLNOR_VALU_FAN2_MIN				90			0-255	FAN2 Control Min at Ceiling High
	81	CLNOR_VALU_FAN2_MAX				130			0-255	FAN2 Control Max at Ceiling High
	82	CLECO_TEMP_FAN1_MIN				47			0-255	FAN1 Control start temp.at Ceiling Normal
	83	CLECO_TEMP_FAN1_MAX				50			0-255	FAN1 Control end temp. at Ceiling Normal
	84	CLECOTEMP_FAN2_MIN				47			0-255	FAN2 Control start temp.at Ceiling Normal
	85	CLECO_TEMP_FAN2_MAX				50			0-255	FAN2 Control end temp. at Ceiling Normal
	86	CLECO_VALU_FAN1_MIN				55			0-255	FAN1 Control Min at Ceiling Normal
	87	CLECO_VALU_FAN1_MAX				115			0-255	FAN1 Control Max at Ceiling Normal
	88	CLECO_VALU_FAN2_MIN				72			0-255	FAN2 Control Min at Ceiling Normal
	89	CLECO_VALU_FAN2_MAX				86			0-255	FAN2 Control Max at Ceiling Normal
	90	FAN_1_AUTO_ADJ				-			0-1	0: OFF(Manual) 1:ON(Auto)
	91	FAN_2_AUTO_ADJ				-			0-1	0: OFF(Manual) 1:ON(Auto)
	92	FACTORY_STD_FAN_VOL_MIN				52			0-255	For Factory
	93	FACTORY_STD_FAN_VOL_MAX				135			0-255	For Factory
	94	FAN1_ADJUST_VOLT_MIN				22				For Factory ⇨ Fan ControlAdj.
	95	FAN1_ADJUST_VOLT_MAX				203				For Factory
	96	FAN2_ADJUST_VOLT_MIN				22			0-255	For Factory ⇨ Fan ControlAdj.
	97	FAN2_ADJUST_VOLT_MAX				203				For Factory
	98	TEMP_ERROR_DETECT_MAX_TIMES				5			1-9	Detecting times for Temp Error
	99	FAN_1_MIN_VOL_LAMP_DIFF				0			0-20	
	100	FAN_2_MIN_VOL_LAMP_DIFF				0			0-20	
	101	LAMP_VOL_BORDER_LINE				70			30-90	
	102	LAMP_VOL				-			0-255	Present Lamp Voltage
	103	Dimmer Voltage Change Cycle				3			1-60	Change cycle of voltage at Dimmer
	104	Dimmer Avarage Check Period				10			1-30	Measurement time of Dimmer average
	105	Dimmer Voltage Change Rate				1			1-50	Voltage change rate ta Dimmer
	106	Dimmer Average				-				Dimmer average
	107	Last Voltage Difference				-				Last voltage difference
	108	Voltage Difference Goal				-				Target voltage difference at Dimmer
	109	CoolingSwitch				1				0: Cooling-less 1: Cooling
	110	OnStart_Cooling_Start_Temp				38			0-100	
Group 200	Auto Calibration									
	0	Execute Calibration	PW186			0			0 - 255	Auto executing when value changes
	1	Loop Count	PW186			3			1 - 30	Loop times of Auto Calibration
	2	OFFSET AREA H START	PW186			25			0 - 4095	Black Level Acquire area H-Start Position
	3	OFFSET AREA V START	PW186			500			0 - 4095	Black Level Acquire area V-Start Position
	4	GAIN AREA H START	PW186			975			0 - 4095	White Level Acquire area H-Start Position
	5	GAIN AREA V START	PW186			500			0 - 4095	White Level Acquire area V-Start Position
	6	Image AREA H WIDTH	PW186			13			0 - 4095	Black/White Level Acquire area
	7	Image AREA V HIGHT	PW186			9			0 - 4095	Black/White Level Acquire area Height
	8	OFFSET target	PW186			1			0 - 127	Target for Black Level Adj.
	9	OFFSET torelance	PW186			1			1 - 127	Allowence Range for Black Level Adj

Electrical Adjustments

Item No.	NAME	Device	XGA						Range	Description
			PC	Component			Video			
				HDTV	480p	480i	NTSC	PAL		
	10	GAIN target	PW186	244					0 - 255	Target for White Level Adj.
	11	GAIN tolerance	PW186	1					1 - 255	Allowence Range for White Level Adj
	12	Offset Area Average [Red]	PW186	0					0 - 255	Read Only
	13	Offset Area Average [Green]	PW186	0					0 - 255	Read Only
	14	Offset Area Average [Blue]	PW186	0					0 - 255	Read Only
	15	Gain Area Average [Red]	PW186	0					0 - 255	Read Only
	16	Gain Area Average [Green]	PW186	0					0 - 255	Read Only
	17	Gain Area Average [Blue]	PW186	0					0 - 255	Read Only
	18	Image LevelUpdate [OFFSET]	PW186	0					0 - 255	Upadte item 12/13, Link to item 14
Group 290	Panel Type									
	0	Gamma L/R-Check	EP7110	0					0 - 20	0: Gamma for L-Panel, 20: Gamma for R-Panel (Read only)
	1	Gamma L/R-Change	EP7110	10					0 - 20	Change for R-Panel when the value is set to 20. Change for L-Panel when the value is set to 0.
Group 300	General DeInterlacer									
	1	3:2 PullDown Mode	PW186	1					1 - 3	bit 0 : Global Motion Enable (FILMODEN23 GMD) bit 1 : Video Motion(VOFMODEN)
	2	Detect Film Mode Enable	PW186	0					0 - 2	0 : 2:3pull down & 2:2pull down, 1 : 2:3pull down, 2 : 2:2pull down * Adjust at Film Mode with Menu
Group 301	Motion Adaptive									
	0	Motion Adaptive Weight Value L1	PW186	40					0 - 255	Progressive L1 Param
	1	Motion Adaptive Weight Value L2	PW186	2					0 - 255	Progressive L2 Param
	2	Motion Adaptive Weight Value FILM	PW186	30					0 - 255	KDEINT
Group 302	Low Angle Interporation (LAI)									
	0	Angle Interpolation Level L1	PW186	4					0 - 4	
	1	Angle Interpolation Level L2	PW186	2					0 - 4	
	2	Angle Interpolation Level FILM	PW186	4					0 - 4	
Group 311	Noise Reduction L1									
	0	Noise Pixel Range	PW186	1					0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW186	12					0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW186	24					0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW186	40					0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW186	90					0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 313	Noise Reduction L2									
	0	Noise Pixel Range	PW186	1					0 - 3	<NSRANGEY> / <NSRANGEUV>
	1	Noise Region 0	PW186	12					0 - 1023	<NSREGIONY0> / <NSREGIONUV0>
	2	Noise Region 1	PW186	24					0 - 1023	<NSREGIONY1> / <NSREGIONUV1>
	3	Noise Region 2	PW186	40					0 - 1023	<NSREGIONY2> / <NSREGIONUV2>
	4	Noise Gain Level	PW186	110					0 - 1023	<NSFILTERY**> / <NSFILTERUV**>
Group 320	2:2 Pull Down									
	0	22Film Mode Sensitivity	PW186	4					1 - 5	Film Detection Sensitivity <FILMSTVT22>
	1	22Film Mode Threshold Low	PW186	80					0 - 32767	<FILMTHRD22A>
	2	22Film Mode Threshold High	PW186	120					0 - 32767	<FILMTHRD22B>
	6	Video Motion Window Start X	PW186	10					0 - 2047	
	7	Video Motion Window StopX	PW186	10					0 - 2047	
	8	Video Motion Window Start Y	PW186	10					0 - 1023	
	9	Video Motion Window StopY	PW186	10					0 - 1023	Window Setting of 22PullDown & Video Motion Sum calib.
Group 321	3:2 PullDown									
	0	Global Motion Sensitivity	PW186	4					1 - 5	Film Detection Sensitivity <FILMSTVT23>
	1	Video Motion Sensitivity	PW186	4					1 - 5	Film Detection Sensitivity <VOFSTVT>
	2	Video Motion Threshold Low	PW186	120					0 - 32767	<VOFTHRDA>
	3	Video Motion Threshold High	PW186	180					0 - 32767	<VOFTHRDB>
	4									
	5	23Film Mode Threshold	PW186	100					0 - 32767	<FILMTHRD23>
	6	Global Motion Window Start X	PW186	10					0 - 2047	
	7	Global Motion Window Stop X	PW186	10					0 - 2047	
	8	Global Motion Window Start Y	PW186	10					0 - 1023	
	9	Global Motion Window Stop Y	PW186	10					0 - 1023	Window Setting of Global Motion Sum Calib.
Group 500	OverScan Video 480i									
	1	Disp Dots (HRES)	PW186	668						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	78						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	48						Vertical Back Porch
	4	Disp Line (VRES)	PW186	458						Vertical Resolution
Group 502	OverScan Video 575i									
	1	Disp Dots (HRES)	PW186	658						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	94						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	64						Vertical Back Porch
	4	Disp Line (VRES)	PW186	536						Vertical Resolution
Group 520	OverScan HDTV 480i									
	1	Diso Dots (HRES)	PW186	670						Horizontal Resolution

Electrical Adjustments

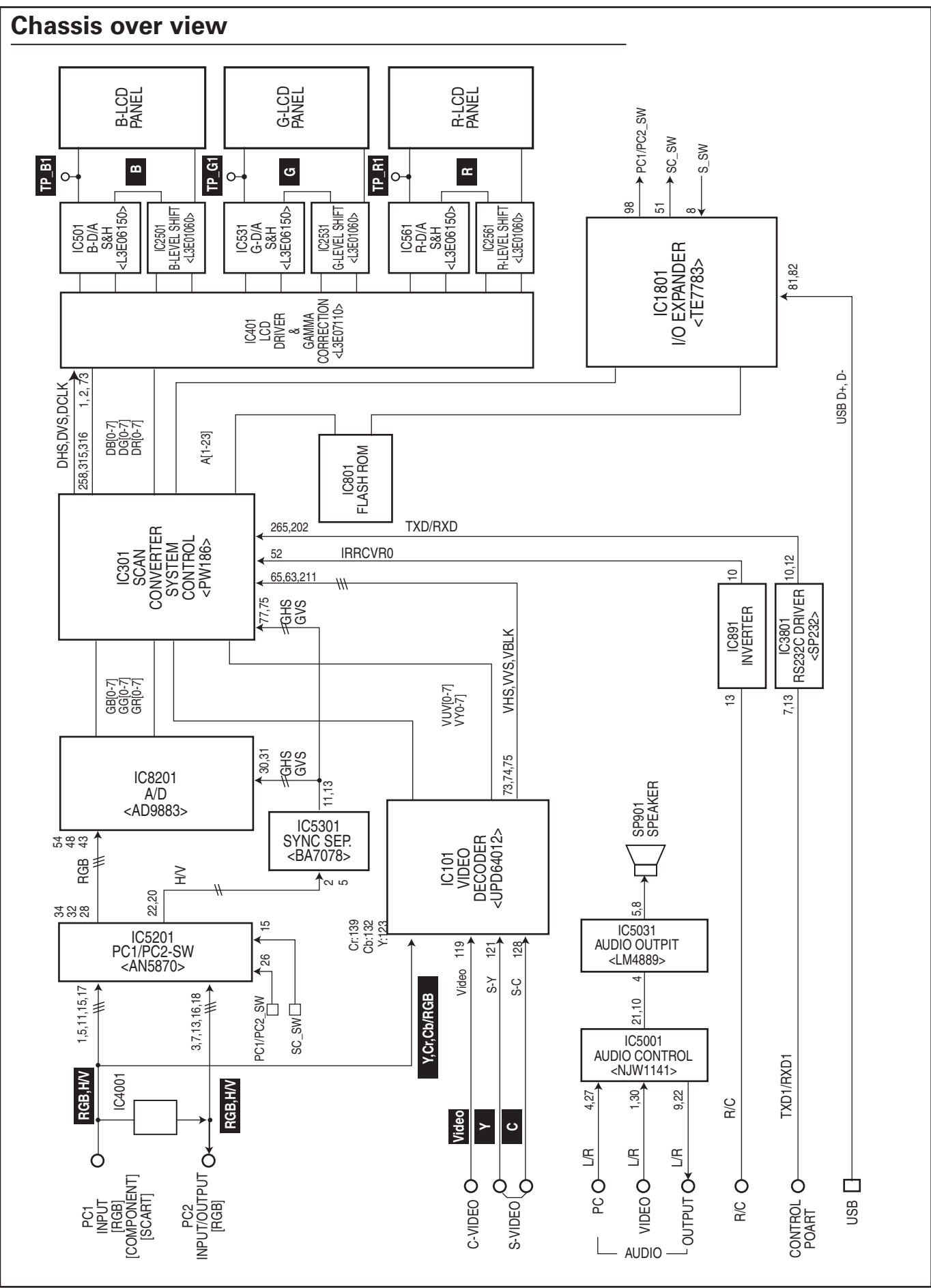
Item No.		NAME	Device	XGA						Range	Description
				PC	Component			Video			
					HDTV	480p	480i	NTSC	PAL		
	2	Horz Back Porch (HPOS)	PW186		78						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		50						Vertical Back Porch
	4	Disp Line (VRES)	PW186		454						Vertical Resolution
Group 522	OverScan HDTV 575i										
	1	Disp Dots (HRES)	PW186		650						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		96						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		64						Vertical Back Porch
	4	Disp Line (VRES)	PW186		532						Vertical Resolution
Group 524	OverScan HDTV 480p										
	0	Total Dots(HTOTAL)	AD9883		1317						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		1050						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		211						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		48						Vertical Back Porch
	4	Disp Line (VRES)	PW186		460						Vertical Resolution
	5	Clamp Pos	AD9883		1						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 526	OverScan HDTV 575p										
	0	Total Dots(HTOTAL)	AD9883		1253						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		956						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		234						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		62						Vertical Back Porch
	4	Disp Line (VRES)	PW186		536						Vertical Resolution
	5	Clamp Pos	AD9883		1						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 528	OverScan HDTV 720p										
	0	Total Dots(HTOTAL)	AD9883		1650						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		1250						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		306						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		34						Vertical Back Porch
	4	Disp Line (VRES)	PW186		702						Vertical Resolution
	5	Clamp Pos	AD9883		42						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 530	OverScan HDTV 1035i										
	0	Total Dots(HTOTAL)	AD9883		2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		1876						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		248						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		92						Vertical Back Porch
	4	Disp Line (VRES)	PW186		1012						Vertical Resolution
	5	Clamp Pos	AD9883		50						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 532	OverScan HDTV 1080i 50Hz										
	0	Total Dots(HTOTAL)	AD9883		2640						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		56						Vertical Back Porch
	4	Disp Line (VRES)	PW186		1050						Vertical Resolution
	5	Clamp Pos	AD9883		50						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 534	OverScan HDTV 1080i 60Hz										
	0	Total Dots(HTOTAL)	AD9883		2200						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		1874						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		250						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		54						Vertical Back Porch
	4	Disp Line (VRES)	PW186		1054						Vertical Resolution
	5	Clamp Pos	AD9883		50						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 540	OverScan RGB 480i										
	0	Total Dots(HTOTAL)	AD9883		780						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		616						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		130						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		54						Vertical Back Porch
	4	Disp Line (VRES)	PW186		460						Vertical Resolution
	5	Clamp Pos	AD9883		1						AD9883 Clamp Placement
	6	Clamp Width	AD9883		31						AD9883 Clamp Duration
Group 542	OverScan RGB 575i										
	0	Total Dots(HTOTAL)	AD9883		944						AD9883 PLL Div
	1	Disp Dots (HRES)	PW186		718						Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186		180						Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186		66						Vertical Back Porch
	4	Disp Line (VRES)	PW186		536						Vertical Resolution

Electrical Adjustments

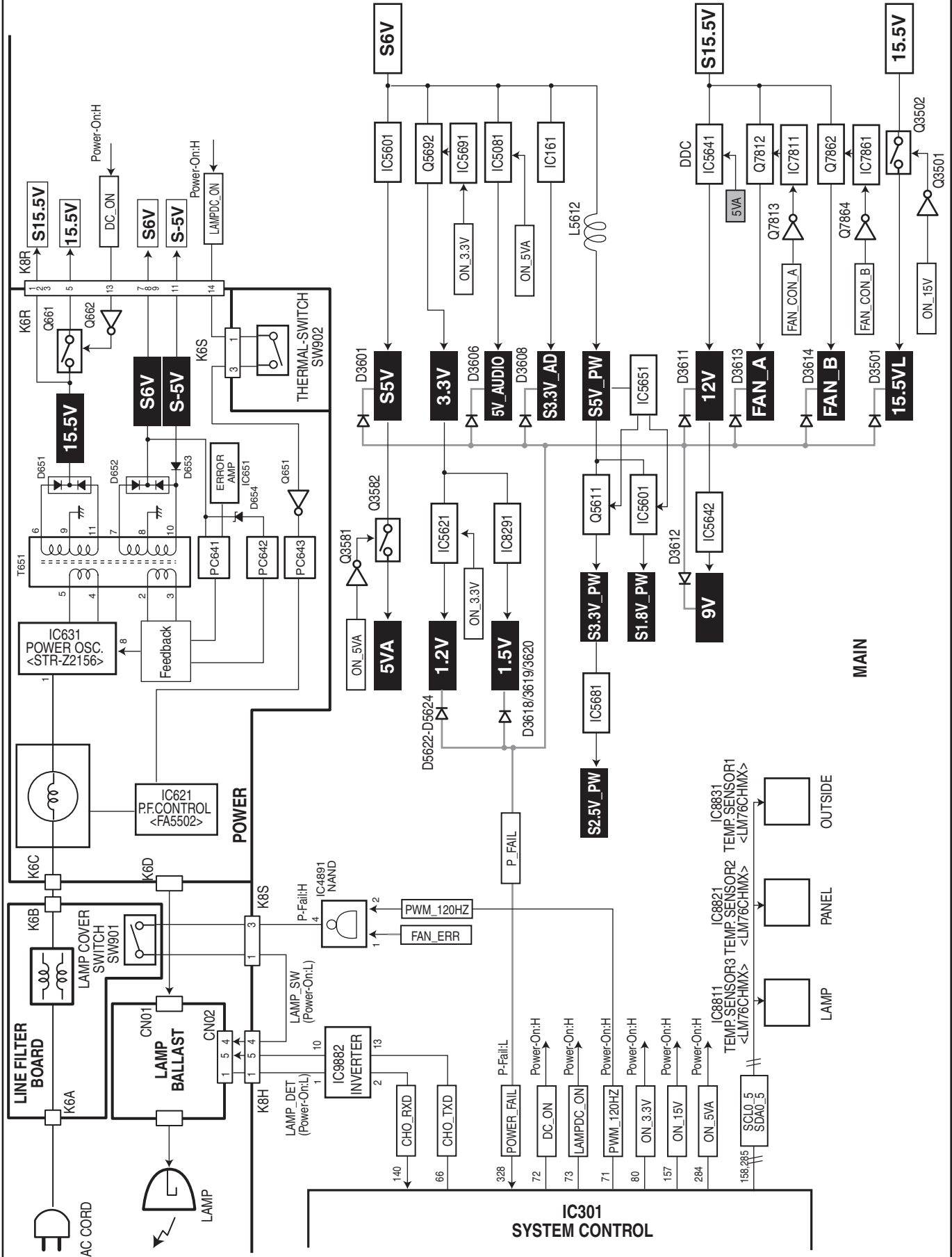
Item No.	NAME	Device	XGA						Range	Description	
			PC	Component			Video				
				HDTV	480p	480i	NTSC	PAL			
	5	Clamp Pos	AD9883	1							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 544	OverScan RGB 480p										
	0	Total Dots(HTOTAL)	AD9883	1200							AD9883 PLL Div
	1	Disp Dots (HRES)	PW186	958							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	192							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	48							Vertical Back Porch
	4	Disp Line (VRES)	PW186	460							Vertical Resolution
	5	Clamp Pos	AD9883	1							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 546	OverScan RGB 575p										
	0	Total Dots(HTOTAL)	AD9883	1200							AD9883 PLL Div
	1	Disp Dots (HRES)	PW186	912							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	224							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	62							Vertical Back Porch
	4	Disp Line (VRES)	PW186	540							Vertical Resolution
	5	Clamp Pos	AD9883	1							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 548	OverScan RGB 720p										
	0	Total Dots(HTOTAL)	AD9883	1650							AD9883 PLL Div
	1	Disp Dots (HRES)	PW186	1250							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	306							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	34							Vertical Back Porch
	4	Disp Line (VRES)	PW186	702							Vertical Resolution
	5	Clamp Pos	AD9883	48							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 550	OverScan RGB 1035i										
	0	Total Dots(HTOTAL)	AD9883	2200							AD9883 PLL Div
	1	Disp Dots (HRES)	PW186	1874							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	250							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	92							Vertical Back Porch
	4	Disp Line (VRES)	PW186	1012							Vertical Resolution
	5	Clamp Pos	AD9883	48							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 552	OverScan RGB 1080i 50Hz										
	0	Total Dots(HTOTAL)	AD9883	2640							AD9883 PLL Div
	1	Disp Dots (HRES)	PW186	1874							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	250							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	56							Vertical Back Porch
	4	Disp Line (VRES)	PW186	1052							Vertical Resolution
	5	Clamp Pos	AD9883	48							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 554	OverScan RGB 1080i 60Hz										
	0	Total Dots(HTOTAL)	AD9883	2200							AD9883 PLL Div
	1	Disp Dots (HRES)	PW186	1874							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	250							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	54							Vertical Back Porch
	4	Disp Line (VRES)	PW186	1054							Vertical Resolution
	5	Clamp Pos	AD9883	48							AD9883 Clamp Placement
	6	Clamp Width	AD9883	31							AD9883 Clamp Duration
Group 560	OverScan Scart 480i										
	1	Disp Dots (HRES)	PW186	674							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	78							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	46							Vertical Back Porch
	4	Disp Line (VRES)	PW186	458							Vertical Resolution
Group 562	OverScan Scart 575i										
	1	Disp Dots (HRES)	PW186	656							Horizontal Resolution
	2	Horz Back Porch (HPOS)	PW186	96							Horizontal Back Porch
	3	Vert Back Porch (VPOS)	PW186	62							Vertical Back Porch
	4	Disp Line (VRES)	PW186	536							Vertical Resolution

Chassis Block Diagrams

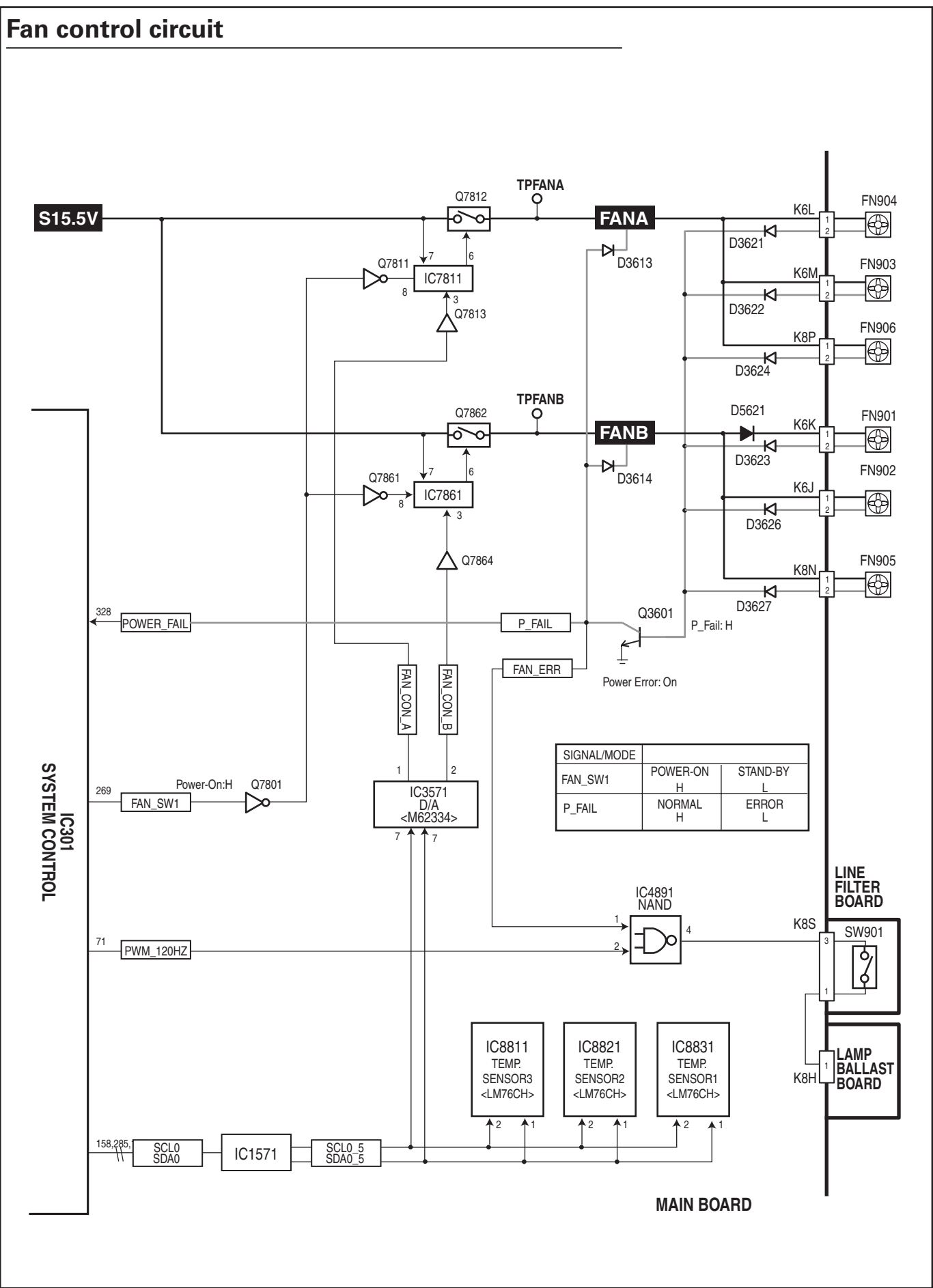
Chassis over view



Power supply & protection circuit



Fan control circuit



Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators			Projector Condition
POWER red/green	WARNING red	LAMP REPLACE yellow	
			The projector is off. (The AC power cord is unplugged.)
			The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.
			The projector is ready to be turned on with the POWER ON-OFF button.
			The projector is operating normally.
			The projector is in the Power management mode.
			The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING indicator keeps blinking.) Check and clean the air filters.
			The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING indicator stops blinking. Check and clean the air filters.
			The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.

 ... green.

 ... red

 ... off

 ... blinks green.

 ... blinks red.

* When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- When all of LED indicators are not lighting, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

- AC cord
- F601 (Fuse)
- Power board
- SW902 (Thermal sw.) short in normal
SW902 opens when the surrounding temperature of the switch exceeds 105°C.

- When the WARNING (red) and POWER (red) indicators are flashing, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.

The internal temperature is monitored by sensor ICs, IC8801, IC8821 and IC8831 on the Main board.

- When the WARNING indicator lights red, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

The P_FAIL signal (Error: L) is sent to pin 382 of IC301<SYSTEM CONTROL> when the abnormality occurred inside the projector, and then the IC301 sends the shut down signals, DC_ON and LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.

An abnormality occurs on the secondary power supply;

Check power supplies 15.5V, S15.5V, S6V, S-5V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.

An abnormality occurs on the fan control circuit;

Check FN901, FN902, FN903, FN904, FN905, FN906 and peripheral circuit.

If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.

An abnormality occurs on the drive signals;

DC_ON signal (Power-on: H) is output from pin 72 of IC301 and supplied to power supply circuit.

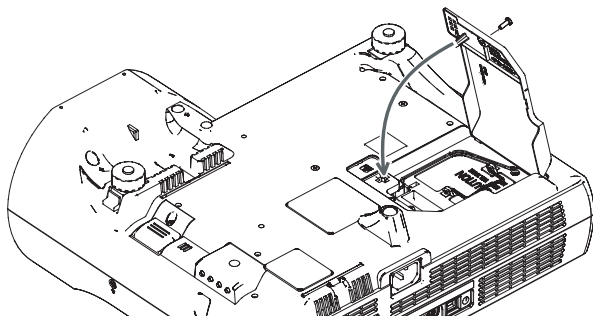
LAMPDC_ON signal (Power-on: H) is output from pin 73 of IC301 and supplied to the P.F Control IC, IC621, on the power supply board through Q651, and PC643.

PWM_20HZ signal (Power-on: H) is output from pin 71 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through the Lamp Cover switch (SW901).

CHO_RXD signal at the pin 140 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

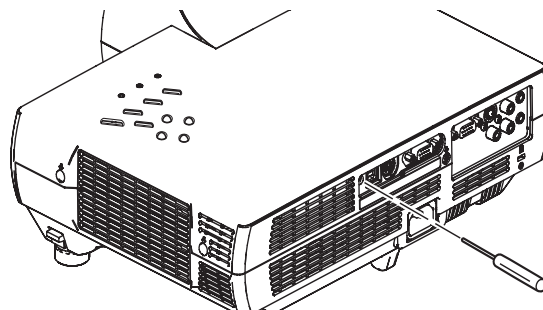
Lamp Cover switch

Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



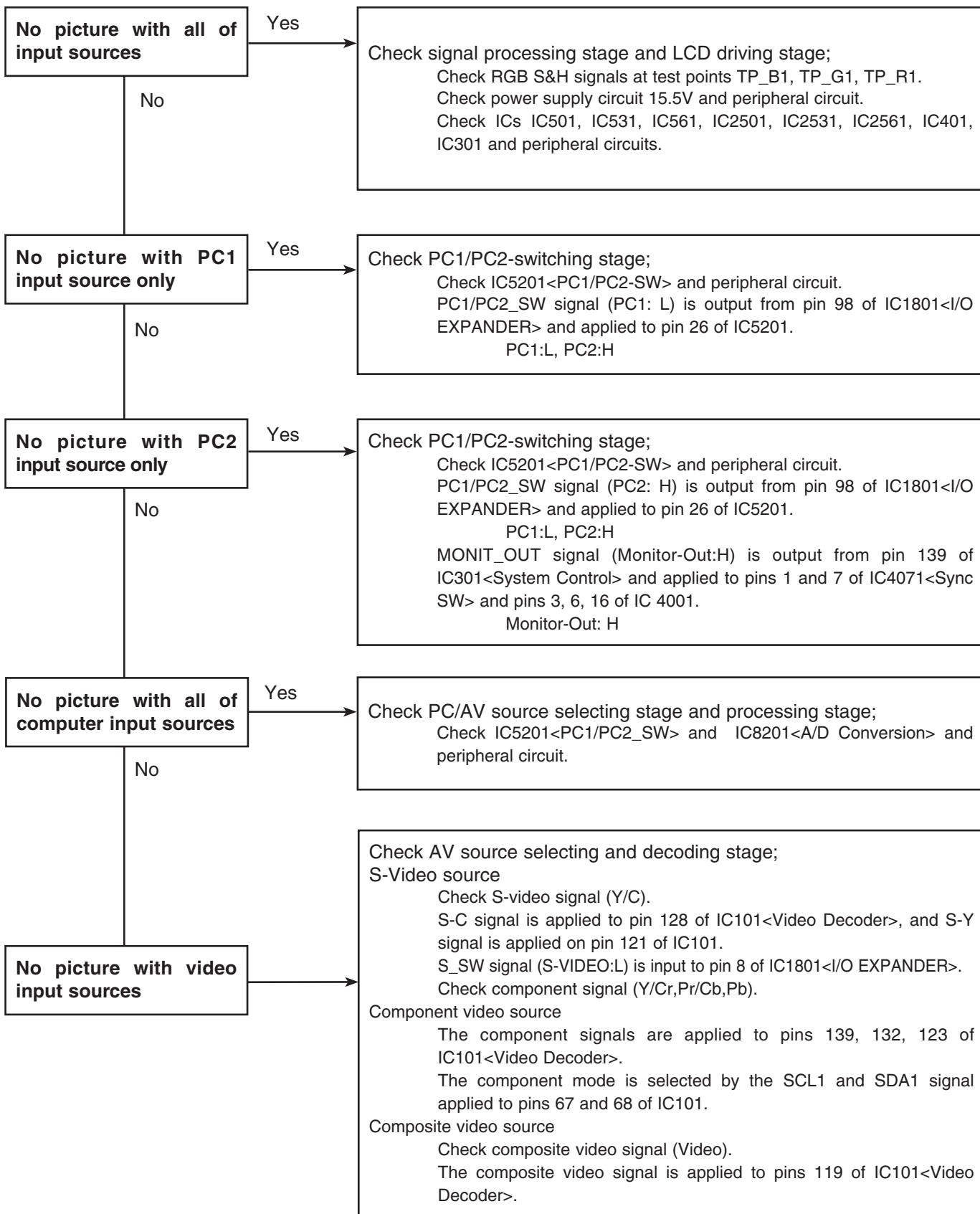
Reset switch

The microprocessor inside the projector may occasionally malfunction and does not accept any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.



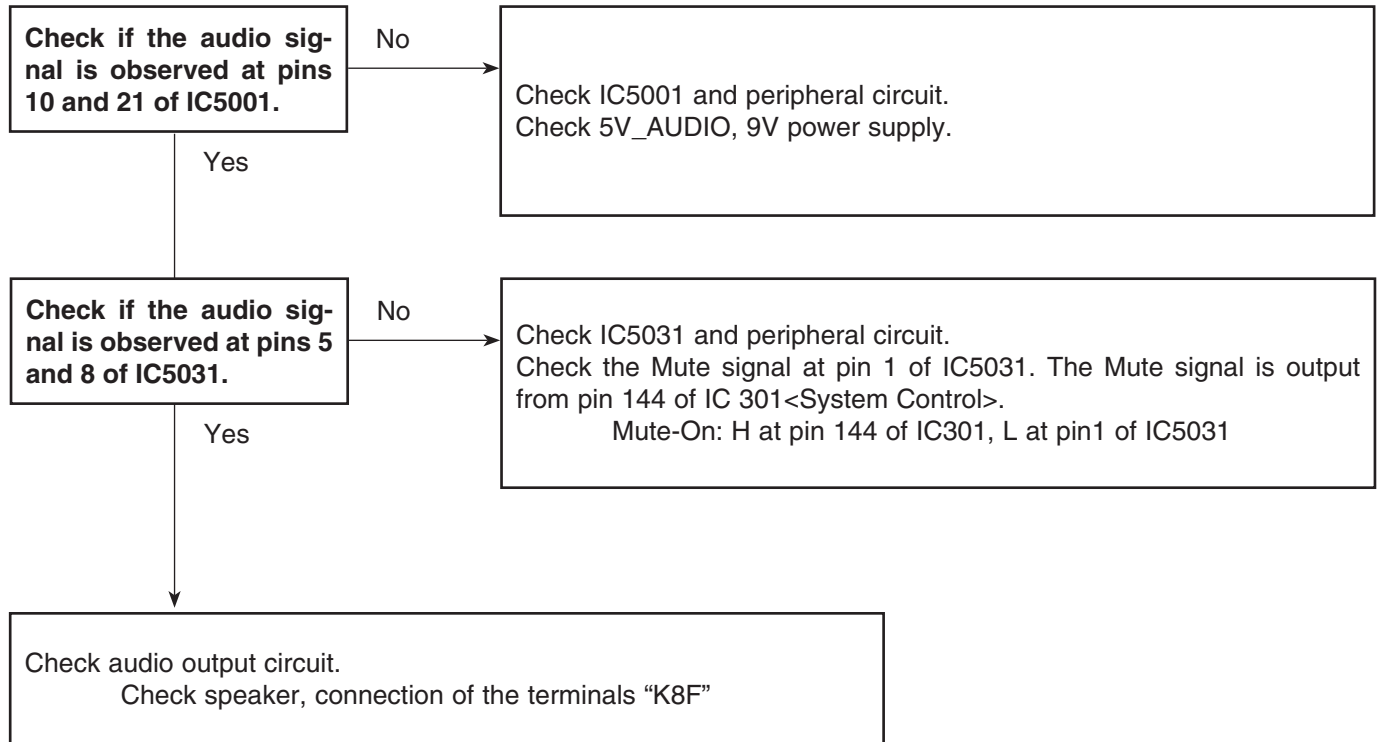
No Picture

Check following steps.



No Sound

Check following steps.



Control Port Functions

System Control I/O Port Functions (IC301)

PIN No.	PIN NAME	PORT	SIGNAL	DESCRIPTION	I/O
82	D1	IN0RO5	SCL1_3	IIC bus	I
71	R1		PWM_120HZ	Ballast Drive Power-On: H	O
158	E2	IN0RO3	SCL0	IIC bus	I
80	F1	IN0GO7	ON_3.3V	3.3V Drive On: H	O
157	F2	IN0GO5	ON_15V	15V Drive On: H	O
79	G1	IN0BO3	PANEL_OPT	Panel Optioin H: XGA, L:SVGA	I
225	G3	IN0GO9	FAN_K8N	Fan Drive On: H	O
286	G4	IN0RO6	SDA	IIC bus	I/O
155	H2	IN0BO4	CARD_IN		I
285	H4	IN0RO2	SDA0	IIC bus	I/O
77	J1	IN0VS	GVS	V-Sync Input	I
223	J3	IN0HS	GFBK		I
284	J4	IN0GO8	ON_5VA	5VA Drive On: H	O
76	K1	IN0BO5	W_LAN_IN	Wireless LAN Option	I
153	K2	IN0CST	GCOAST		I
222	K3	IN0CLP	GBLKSPL		I
75	L1	IN0AHS	GHS	H-Sync Input	I
282	L4	IN0CLK	GCLK		I
151	M2		SCL		I
73	N1	IN0GO6	LAMPDC_ON	On: H	O
72	P1	IN0GO2	DC_ON	On: H	O
149	P2	IN0RO4	SDA1_3	IIC bus	I/O
278	R4	IN1PEN	VPEN		I
216	T3	IN1R9	SCS		
215	U3	IN1CLK	VCLK		I
328	V5		P_FAIL	Power Failure Detection input	I
327	V6	ADC2	KEY3	Key Input	I
326	V7	XO	XO		O
316	V17	DCLK	DCLK	Clock Output	O
315	V18	DHS	DHS	H-Sync Output	O
258	V19	DVS	DVS	V-Sync Output	O
144	W2	IN1R5	MUTE	Audio Mute Output Mute-On: H	O
271	W7	XI	XI		I
269	W9	PORTA6	FAN_SW1	Fan Control Switch Output	O
267	W11		I/O RESET	Reset for I/O	O
266	W12	PORTB5	SCL2	IIC bus	I
265	W13	TXD	TXD_PW	Serial Control TXD	O
66	Y1	TXD1	CHO_TXD	Ballast Control TXD	O
212	Y3	IN1FIELD	VFIELD		I
211	Y4	IN1VBI	VBLK		I
209	Y6	LVDSSEN	LVDSSEN		
207	Y8	NMI	NMI		I
206	Y9	PORTA0	WARNNING	Not used	O
205	Y10	PORTB0	PORTB0		
204	Y11	PORTB6	PORTB6		
202	Y13	RXD	RXD_PW	Serial Control RXD	O
65	AA1	IN1AHS	VHS		I
141	AA3	IN1R7	IRM_RST		O
140	AA4	RXD1	CHO_RXD	Ballast Control RXD	O
139	AA5	IN1R6	MONIT_OUT	Monitor Out Switch Montor-Out: H	O
138	AA6	ADC0	KEY1	Key Input	I
136	AA8	RESETB	RESET	Reset Input	I
135	AA9	PORTA3	PWR	Not used	O
134	AA10	PORTA2	READY	Not used	O
133	AA11		WAKEUP		O
63	AB2	IN1VS	VVS		I
59	AB6	IN1HS	VHS	H-Sync Input	I
58	AB7	ADC1	KEY2	Key Input	I
56	AB9	PORTB4	SDA2	IIC bus	I/O
54	AB11	PORTA1	LAMPER	Not used	O
53	AB12	PORTA4	CABLE_SW		O
52	AB13	IRRCVR0	IRRCVR0	Remote Contro Signal Input	I

Control Port Functions

I/O Expander Port Functions (IC1801)

PIN NO.	NAME	FUNCTION	ACTION	I/O
8	P7	S_SW	Scart switch H: Scart	O
20	XCS	CS0		I
21	XRD	RD		I
22	XWR	WR		I
34	WAKEUP	WAKEUP		I
36	RST	RESET	L- H: Reset	I
38	XI	XTAL IN		I
39	XO	XTAL OUT		O
48	P21	DDC_SW2	n/a	O
49	P22	READY_LED	Ready LED Drive H: On	O
50	P23	S/CV_SW	S-Video/Video Switch H: Composite Video-in	O
51	P24	SC_SW	SCART In Switch H: Scart In	O
52	P25	RESET_N		O
53	P26			
54	P27	USB_VBUS		I
61	AIN1	Option Switch		I
62	AIN2	Option Switch		I
63	AIN3	Option Switch		I
64	AIN4	Option Switch		I
65	AIN5	Option Switch		I
66	AIN6	Option Switch		I
67	AIN7	Option Switch		I
68	AIN8	Option Switch		I
76	P35	DDC_SW1		O
77	P36	DDC_SW2		O
79	P39	I/O_R/C	n/a	I
81	DMINUS	USB_D-		I
82	DPLUS	USB_D+		I
91	P11	SCLK		I
92	P12	SDT		I/O
98	P16	PC1/PC2_SW	L: PC1, H: PC2	O
99	P17	LAMPREP_LED	LAMP REPLACE LDE Drive H: On	O
100	P18	WARNING_LED	WARNING LED Drive H: On	O

IIC Bus DA Converter Port Functions (IC3571)

PIN NO.	NAME	FUNCTION	ACTION	I/O
1	Ao1	FAN_CON_A	Fan Control Voltage Output	O
2	Ao2	FAN_CON_B	Fan COnrol Voltage Output	O
3	Ao3	Not used		
4	Ao4	Not used		
5	GND	GND	GND	
6	SDA	SDA	IIC bus Data	I
7	SCL	SCL	IIC bus Clock	I
8	VCC	VCC	Vcc	I

[illegible]

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

Projection Lens Cleaning



CAUTION

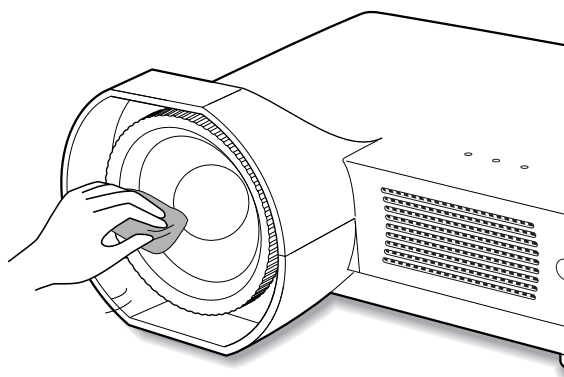
This projector is equipped with a plastic lens.

Do not rub with hard fiber cloth or do not hit the lens with something hard to prevent the lens from scratching. Do not use chemical cleaner (liquid and solid) avoid deteriorating the lens.

1 Disconnect the AC power cord before cleaning.

2 First, remove the dust with a blower.
Then gently wipe the lens surface. Use a lens cleaning paper moistened with methyl alcohol (methanol). Avoid excessive use of cleaner.
Do not use abrasive cleaners, solvents, or other harsh chemical cleaners not to damage the lens.

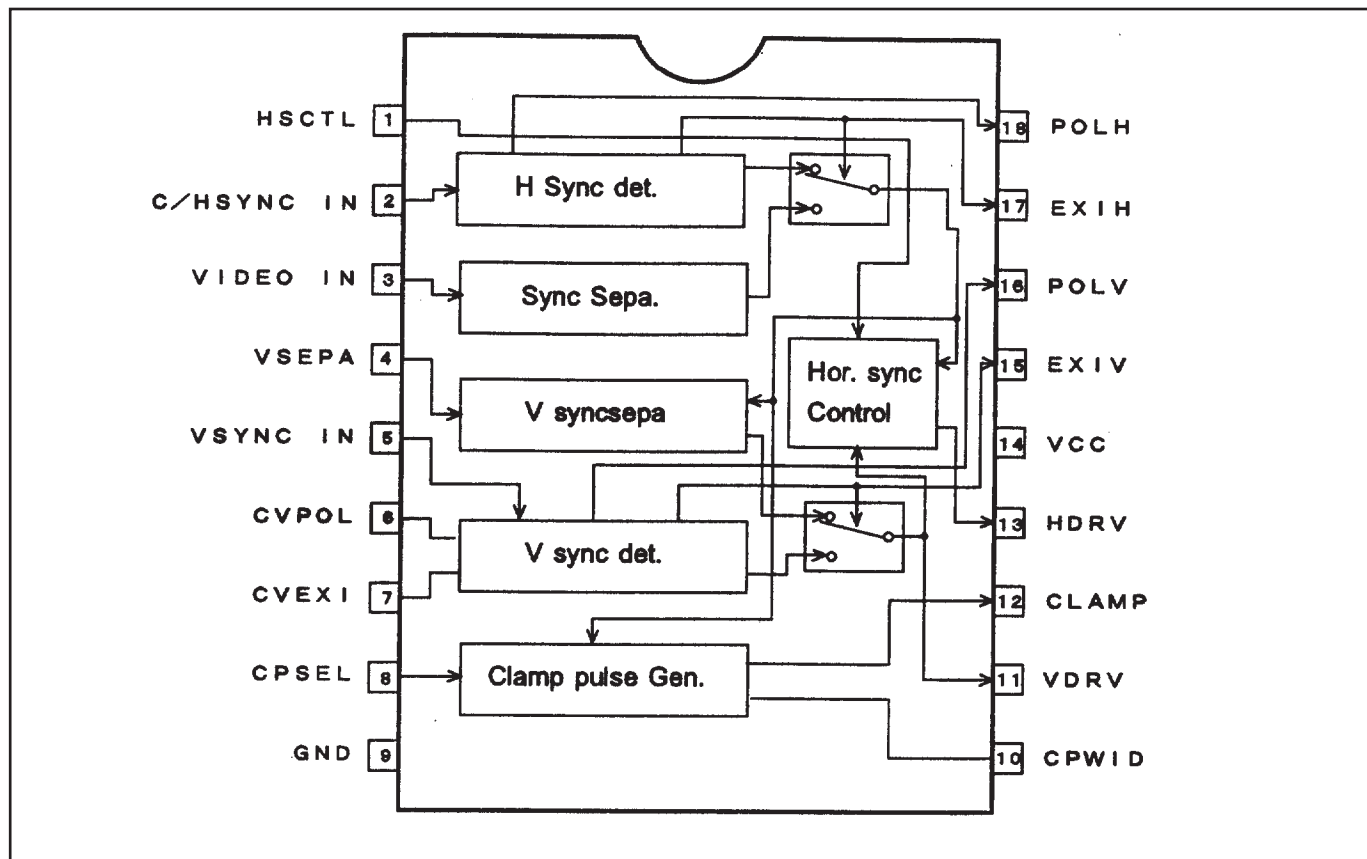
3 When the projector is not in use, replace the lens cover.



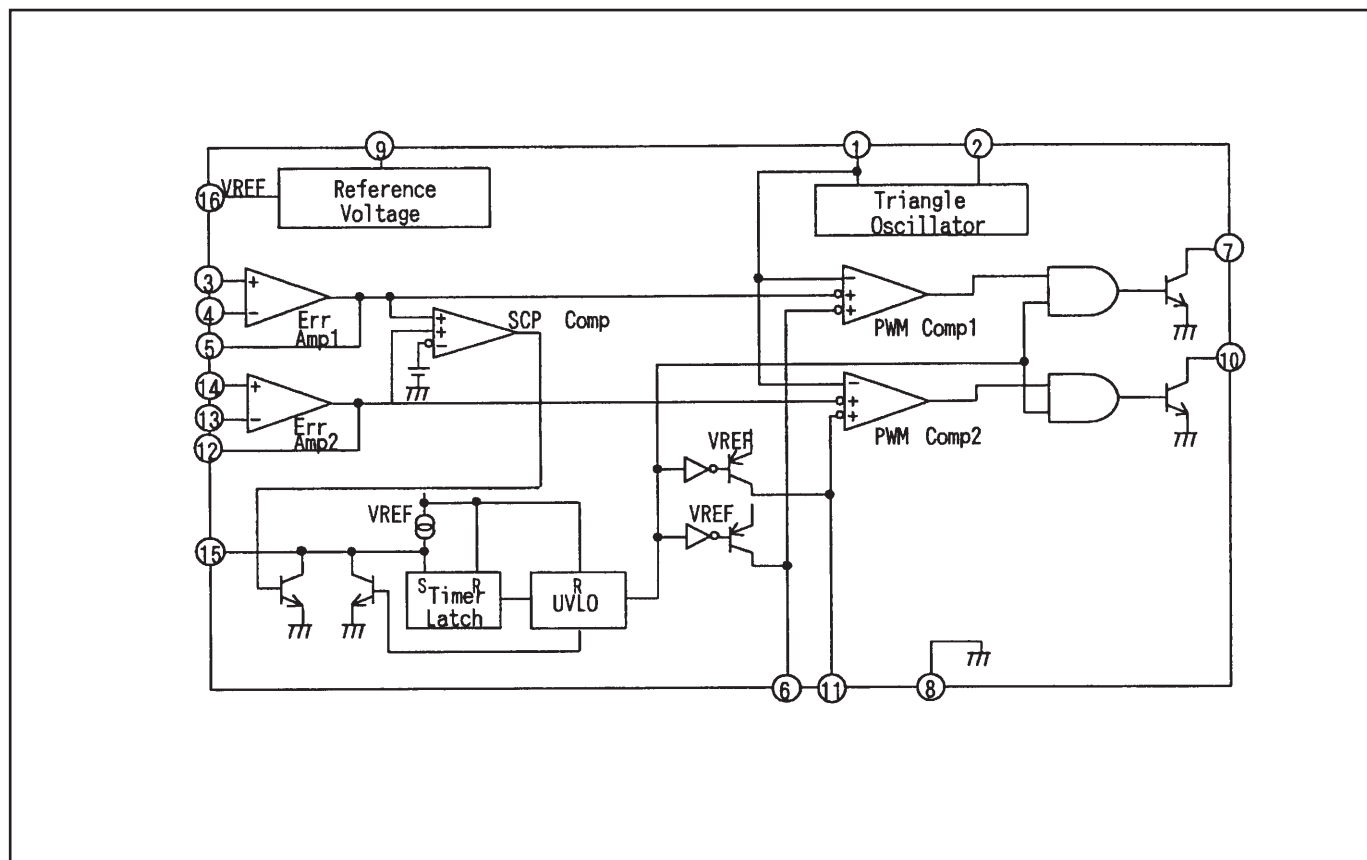
● AD9883 <A/D, IC8201>



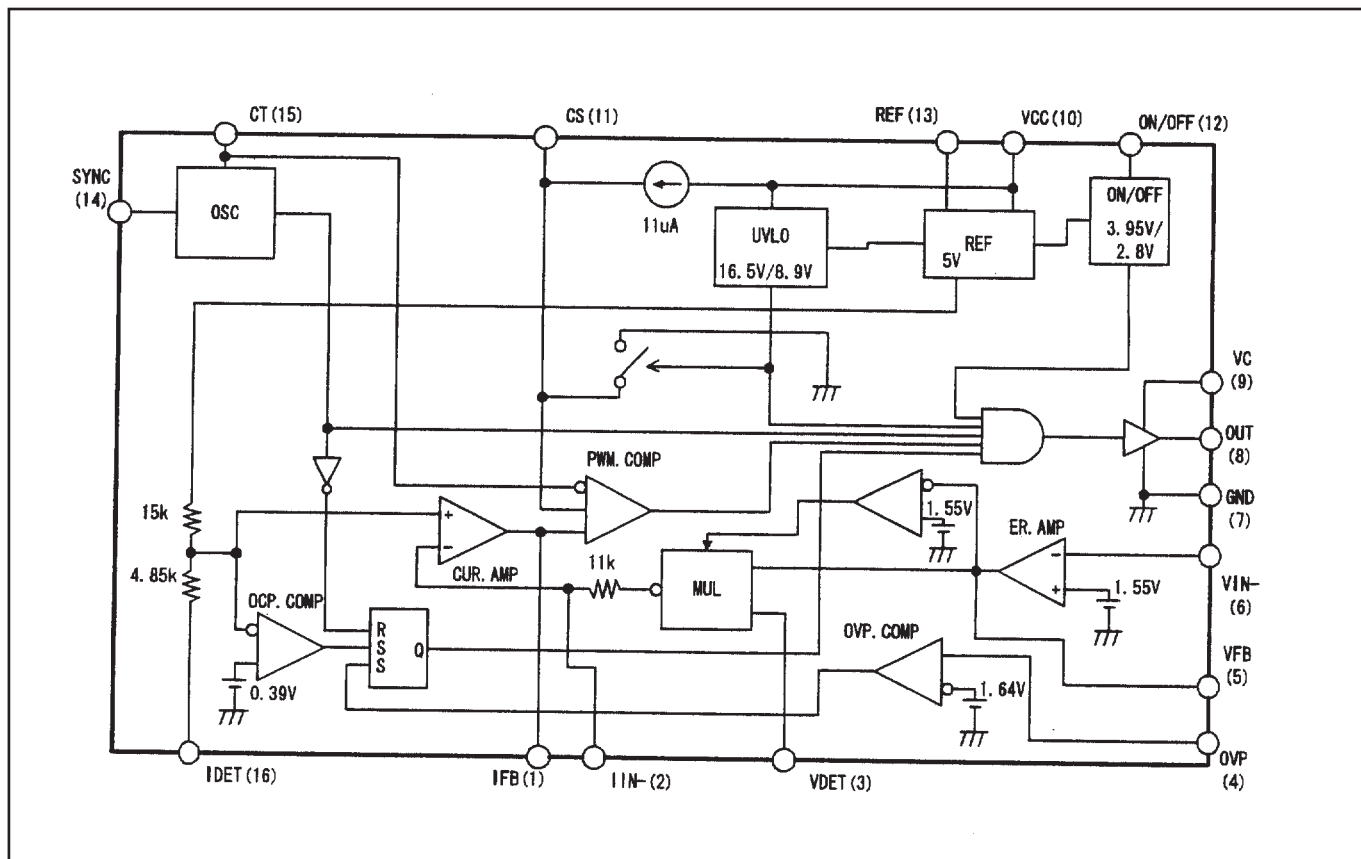
● BA7078 <Sync Separator, IC5301>



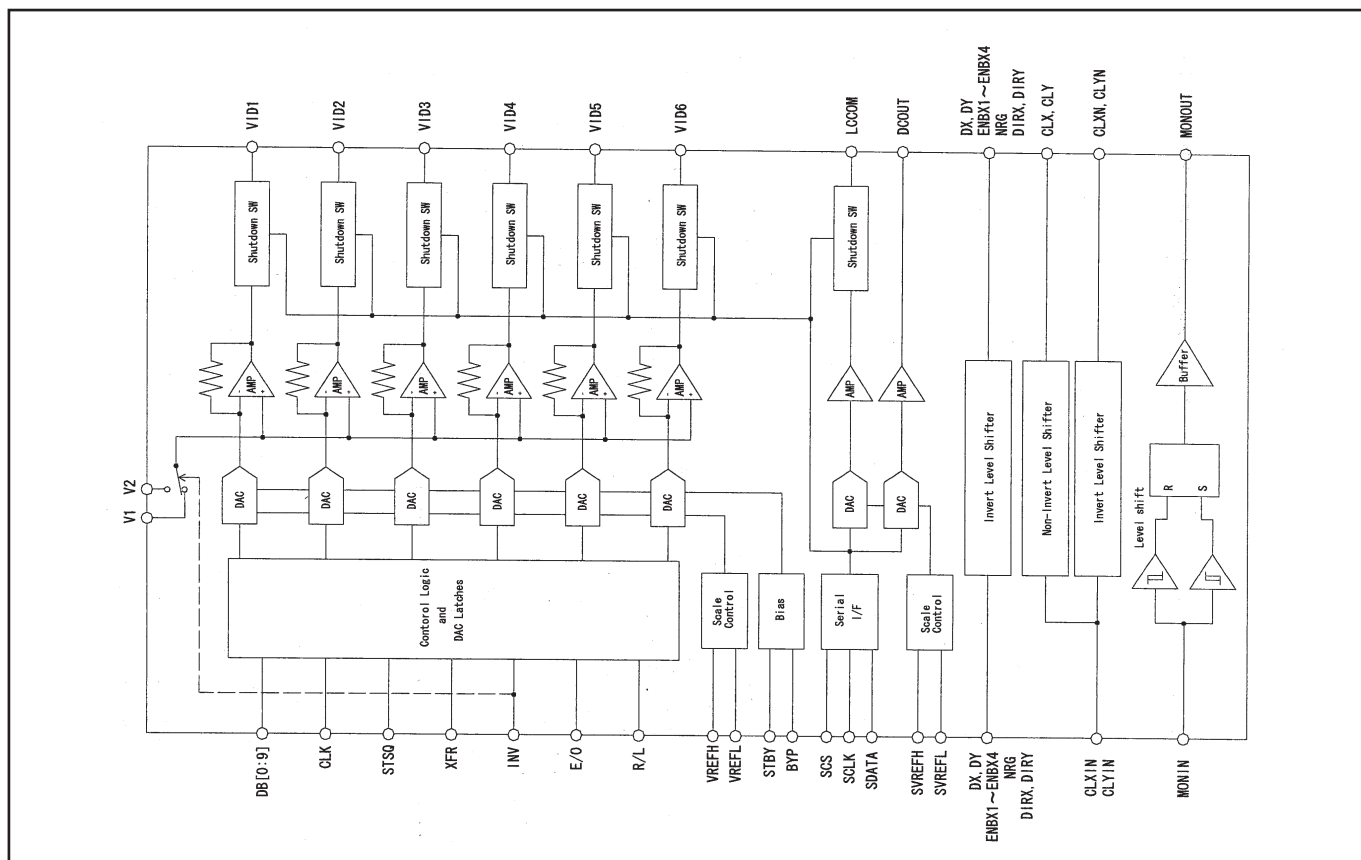
● BA9743<DDC Control, IC5651>



● FA5502 <P.F. Control, IC621>

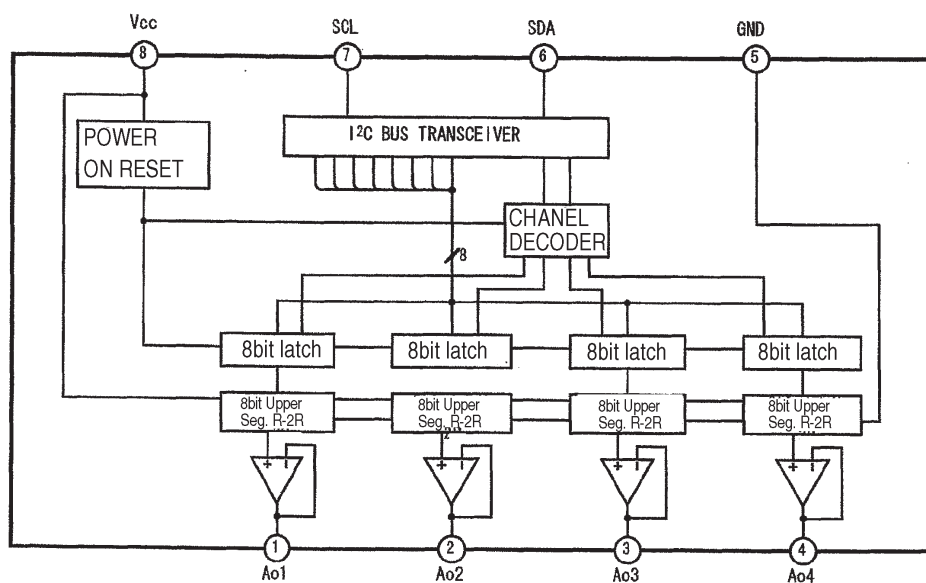


● L3E6100D <D/A, S/H-LCD Driver, IC501, IC531, IC561>

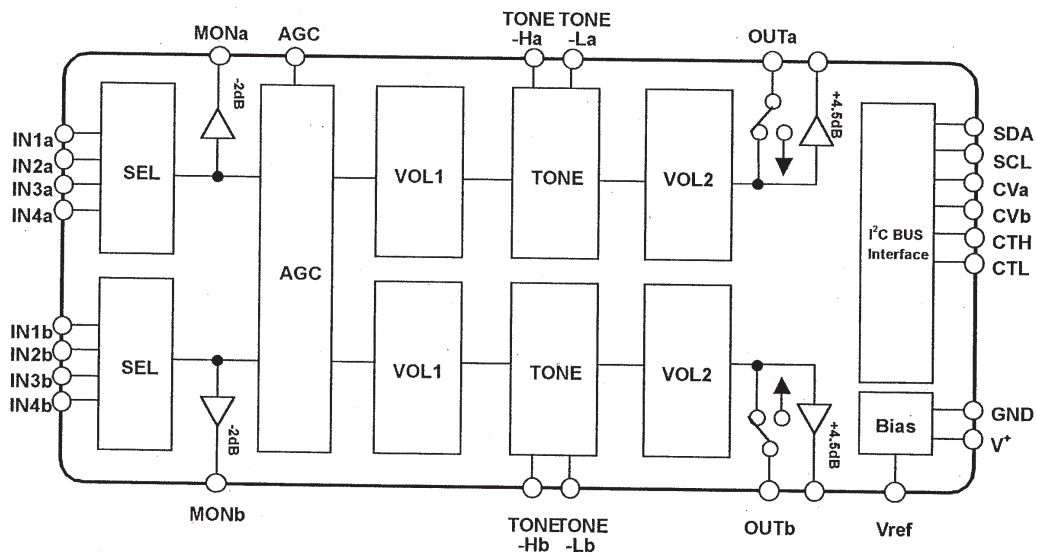




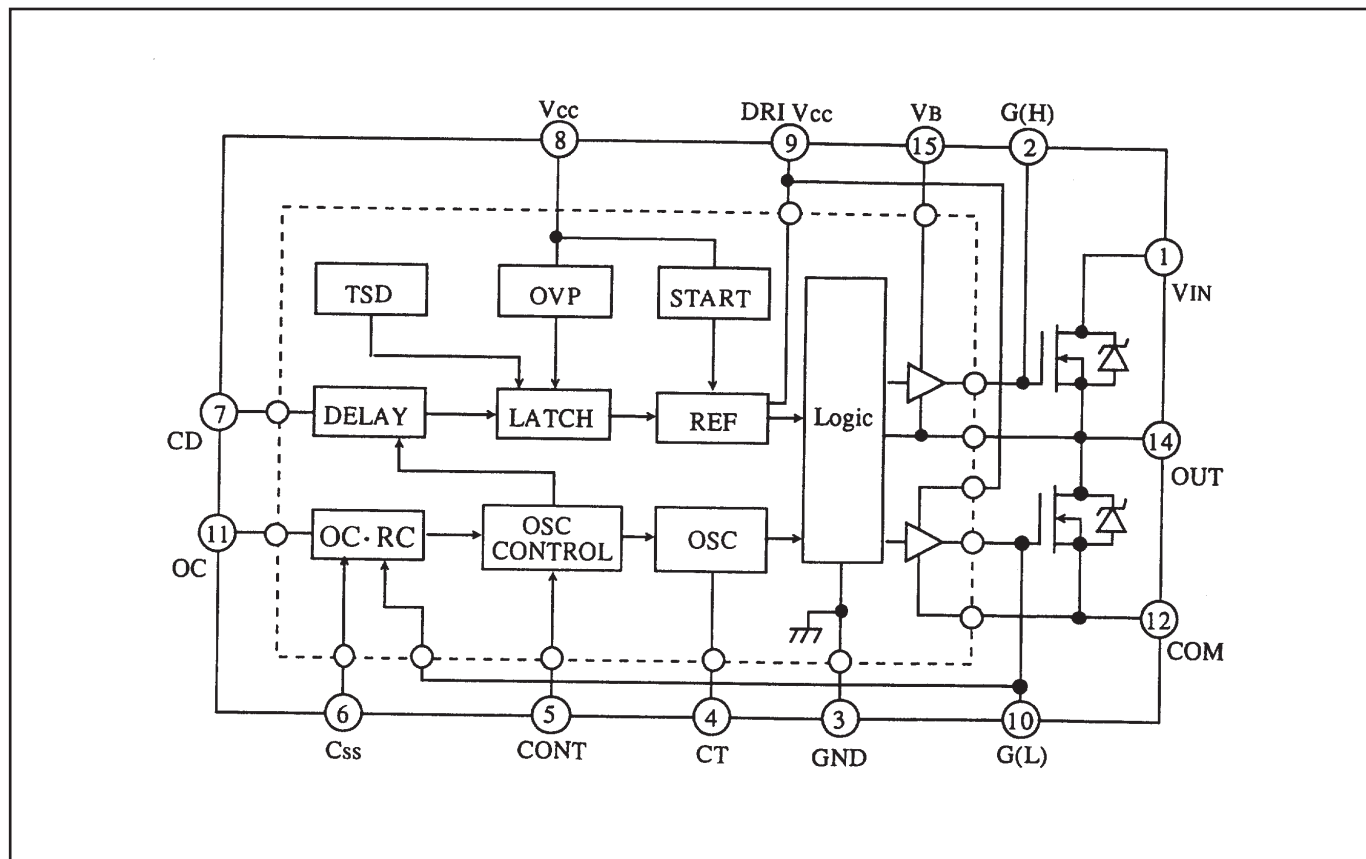
● M62334 <D/A, IC3571>



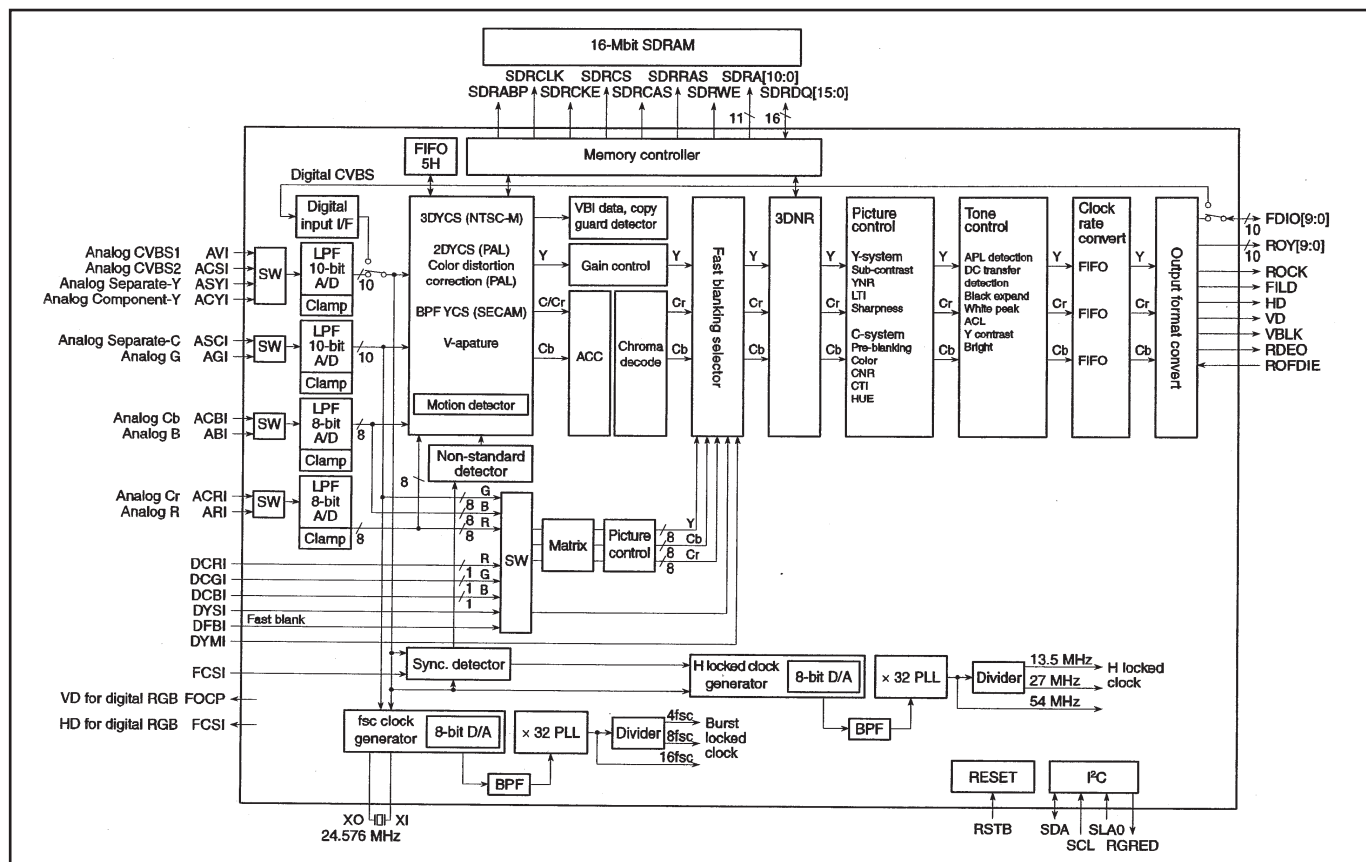
● NJW1141 <Audio Control, IC5001>



STR-Z2156A <Power Switching, IC631>



uPD64012 <Video Decoder, IC101>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector. Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR	CERAMIC	100P	K	50V	
					Rated Voltage
					Tolerance Symbols:
					Less than 10pF
					A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
					D : $\pm 0.5\text{pF}$ E : $\pm 0.1\text{pF}$ F : $\pm 1\text{pF}$
					G : $\pm 2\text{pF}$ H : $\pm 0.1 - 0\text{pF}$ L : $\pm 0.1\text{pF}$
					R : $\pm 0.25 - 0\text{pF}$ S : $\pm 0.025\text{pF}$
					More than 10pF
					A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
					D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
					H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
					L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
					P : $\pm 100 - 0\%$ Q : $\pm 30 - 10\%$ T : $\pm 50 - 10\%$
					U : $\pm 75 - 10\%$ V : $\pm 20 - 10\%$ W : $\pm 100 - 10\%$
					X : $\pm 40 - 20\%$ Y : $\pm 150 - 10\%$ Z : $\pm 80 - 20\%$
					Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
 MT-PAPER..... Metallized Paper
 POLYESTER..... Polyester
 MT-POLYEST..... Metallized Polyester
 POLYPRO..... Polypropylene
 MT-POLYPRO..... Metallized Polypropylene
 COMPO FILM..... Composite film
 MT-COMPO..... Metallized Composite
 STYRENE..... Styrene
 TA-SOLID..... Tantalum Oxide Solid Electrolytic
 AL-SOLID..... Aluminium Solid Electrolytic
 ELECT..... Aluminum Foil Electrolytic
 NP-ELECT..... Non-polarised Electrolytic
 OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
 POS-SOLID..... Polymerized Organic Semiconductive
 DL-ELECT..... Double Layered Electrolytic
 PPS-FILM..... Polyphenylene Sulfide Film
 MT-PPS-FILM..... Metallized Polyphenylene Sulfide Film
 MT-PEN-FILM..... Metallized Polyethylenenaphthalate Film
 CAPACITOR..... Other

RESISTOR	CARBON	4.7K	J	A	1/4W	
						Rated Wattage
						Performance Symbols:
						A: General B: Non flammable Z: Low noise
						Other: Temperature coefficient
						T: $\pm 10\text{ppm}/^\circ\text{C}$ U: $\pm 25\text{ppm}/^\circ\text{C}$ C: $\pm 50\text{ppm}/^\circ\text{C}$
						D: $\pm 100\text{ppm}/^\circ\text{C}$ E: $\pm 200\text{ppm}/^\circ\text{C}$ F: $\pm 250\text{ppm}/^\circ\text{C}$
						G: $\pm 350\text{ppm}/^\circ\text{C}$ H: $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W: $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
						Y: $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J: $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K: $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
						L: $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M: $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N: $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
						P: $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q: $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R: $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
						S: $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V: $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X: $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$
						Tolerance Symbols:
						A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$
						F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$
						M: $\pm 20\%$ P: $\pm 5 - 15\%$ Z: 0 ohm
						Rated value, ohms:
						K: 1,000, M: 1,000,000

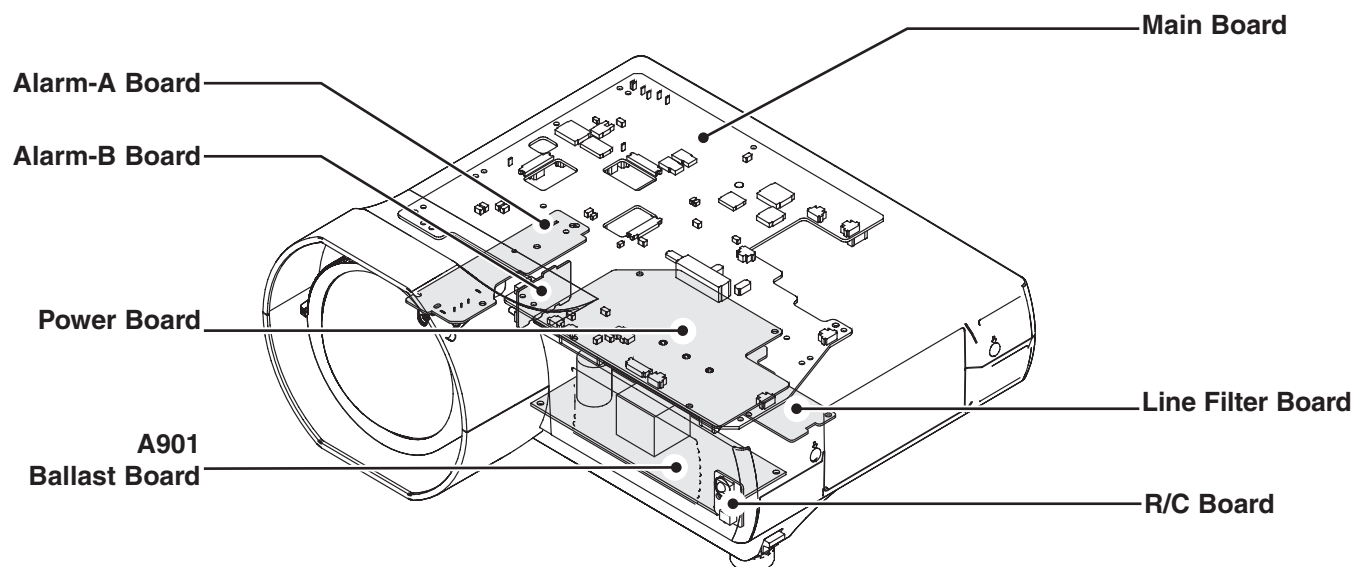
Material:

CARBON..... Carbon
 MT-FILM..... Metal Film
 OXIDE-MT..... Oxide Metal Film
 SOLID..... Composition
 MT-GLAZE..... Metal Glaze
 WIRE WOUND... Wire Wound
 CERAMIC RES.. Ceramic
 FUSIBLE RES... Fusible
 RESISTOR Other

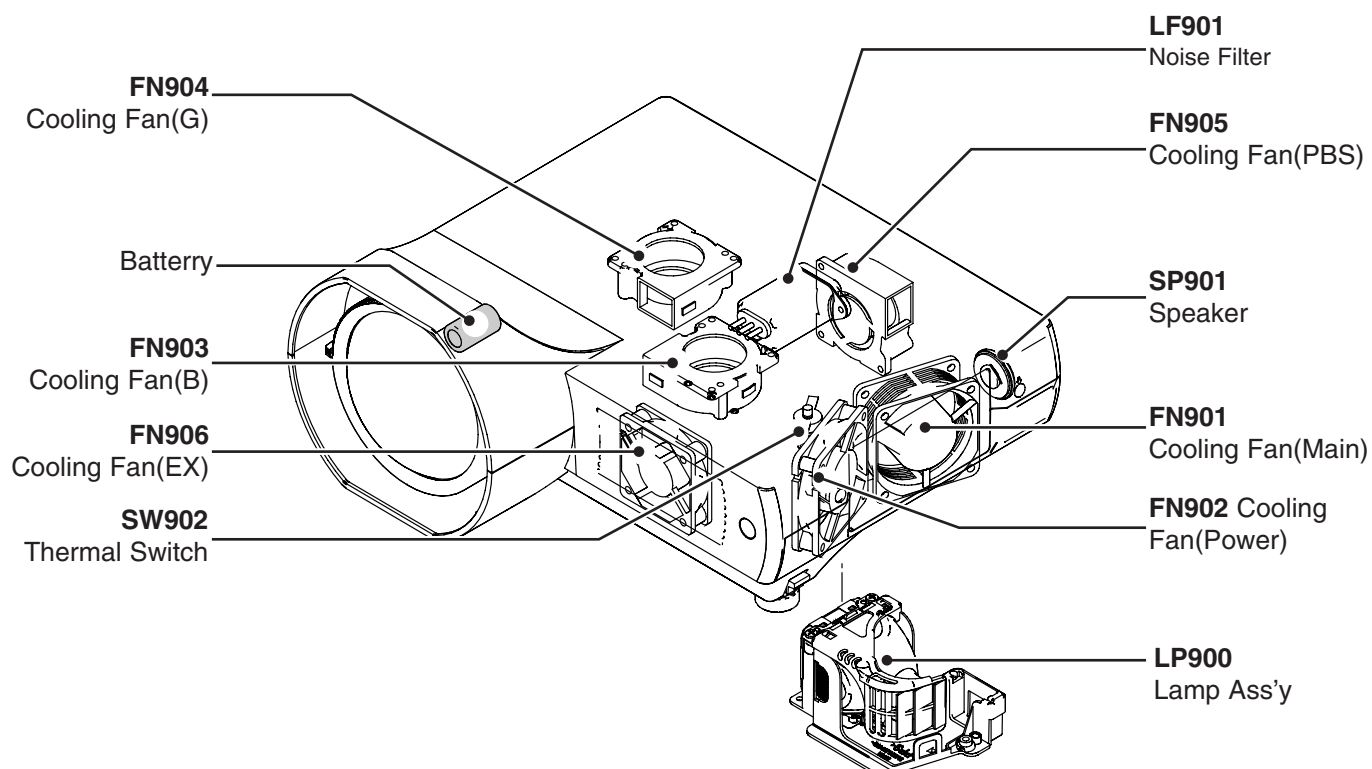
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● OUT OF CIRCUIT BOARD



Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
ASSEMBLED BOARDS					
△ 610 334 8797		ASSY,PWB,POWER KZ6AC		305 163 1615	TR 2SC2812N-L6-TB0
△ 610 334 8889		ASSY,PWB,LINE FILTER KZ6A		305 173 9816	TR 2SC3928A1R
△ 610 331 4204		ASSY,PWB,ALARM-B LG6AC		305 173 9915	TR 2SC3928A1S
△ 610 338 3453		ASSY,PWB,ALARM-A KJ7AC	Q643	305 217 6600	TR 2SK3934
△ 610 338 3477		ASSY,PWB,R/C KJ7AC	Q651	305 014 4512	TR 2SC2412K T146 R
△ 610 339 2059		ASSY,PWB,MAIN KJ7YC		305 014 4611	TR 2SC2412K T146 S
OUT OF CIRCUIT BOARD				305 015 8727	TR 2SC2812-L6-TB
△ LF901	945 078 6472	UNIT,NOISE FILTER		305 015 8925	TR 2SC2812-L7-TB
△ LP900	610 340 8569	LAMP, POA-LMP126		305 163 1615	TR 2SC2812N-L6-TB0
A630A	655 001 6027	GASKET-KT6AC		305 173 9816	TR 2SC3928A1R
△ A901	945 086 0981	UNIT,BALLAST		305 173 9915	TR 2SC3928A1S
A901A	910 322 7093	CABLE,BALLAST MS5A	Q661	305 047 9010	TR 2SB1204-S-TL-E
△ FN901	945 084 2970	MOTOR,FAN DC 2.64W		305 047 9119	TR 2SB1204-T-TL
△ FN902	945 079 7195	MOTOR,FAN DC 2.52W	Q662	305 014 4512	TR 2SC2412K T146 R
△ FN903	945 062 3104	MOTOR,FAN DC 3.6W		305 014 4611	TR 2SC2412K T146 S
△ FN904	945 062 3104	MOTOR,FAN DC 3.6W		305 015 8727	TR 2SC2812-L6-TB
△ FN905	945 062 3104	MOTOR,FAN DC 3.6W		305 015 8925	TR 2SC2812-L7-TB
△ FN906	945 078 5666	MOTOR,FAN DC 1.56W		305 163 1615	TR 2SC2812N-L6-TB0
SP901	952 001 6157	SPEAKER,8		305 173 9816	TR 2SC3928A1R
	652 002 3055	SPEAKER,8		305 173 9915	TR 2SC3928A1S
	652 002 4397	SPEAKER,8	INTEGRATED CIRCUIT		
△ SW902	945 079 2527	SWITCH,THERMAL(105DEG)	IC621	309 523 1413	IC FA5502M
610 334 8797 ASSY,PWB,POWER KZ6AC			IC631	309 558 4202	IC STR-Z2156A
TRANSISTOR			IC651	309 344 6522	IC UPC1093T-E1
Q601	305 134 5928	TR 2SA1037AK-T146-R	CAPACITOR		
	305 147 2218	TR 2SA1037AK-S-T146	C605	303 164 0217	CERAMIC 0.1U Z 25V
	305 173 9618	TR 2SA1235A1E	C611	303 222 1326	CERAMIC 1000P K 1K
	305 173 9717	TR 2SA1235A1F	C612	303 222 1326	CERAMIC 1000P K 1K
	405 220 3115	TR ISA1235AC1E	C613	303 371 8518	MT-POLYEST 1U K 400V
	405 220 3016	TR ISA1235AC1F		303 427 2019	MT-POLYEST 1U K 400V
Q602	305 014 4512	TR 2SC2412K T146 R		303 451 4119	MT-POLYEST 1U K 450V
	305 014 4611	TR 2SC2412K T146 S	C614	303 371 8518	MT-POLYEST 1U K 400V
	305 015 8727	TR 2SC2812-L6-TB		303 427 2019	MT-POLYEST 1U K 400V
	305 015 8925	TR 2SC2812-L7-TB		303 451 4119	MT-POLYEST 1U K 450V
	305 163 1615	TR 2SC2812N-L6-TB0	C615	304 102 7104	ELECT 120U M 420V
	305 173 9816	TR 2SC3928A1R		304 106 8800	ELECT 120U M 420V
	305 173 9915	TR 2SC3928A1S	C616	303 371 8617	MT-POLYEST 0.1U K 450V
Q611	305 140 3707	TR 2SK2698		303 427 1814	MT-POLYEST 0.1U K 450V
Q621	305 014 4512	TR 2SC2412K T146 R	C62A	303 157 3317	CERAMIC 68P J 50V
	305 014 4611	TR 2SC2412K T146 S	C62B	303 157 6615	CERAMIC 470P K 50V
	305 015 8727	TR 2SC2812-L6-TB	C62C	303 374 4210	CERAMIC 0.33U K 10V
	305 015 8925	TR 2SC2812-L7-TB	C62D	303 164 0217	CERAMIC 0.1U Z 25V
	305 163 1615	TR 2SC2812N-L6-TB0	C62E	303 164 0217	CERAMIC 0.1U Z 25V
	305 173 9816	TR 2SC3928A1R	C62F	303 370 9110	CERAMIC 0.068U K 50V
	305 173 9915	TR 2SC3928A1S	C62I	303 149 9211	CERAMIC 0.01U Z 50V
Q622	305 134 5928	TR 2SA1037AK-T146-R	C62J	303 169 2810	CERAMIC 330P J 50V
	305 147 2218	TR 2SA1037AK-S-T146	C62K	303 323 3615	CERAMIC 0.047U K 50V
	305 173 9618	TR 2SA1235A1E	C62M	303 164 0217	CERAMIC 0.1U Z 25V
	305 173 9717	TR 2SA1235A1F	C62R	303 417 9912	CERAMIC 4.7U K 25V
	405 220 3115	TR ISA1235AC1E	C62T	303 164 0217	CERAMIC 0.1U Z 25V
	405 220 3016	TR ISA1235AC1F	C631	303 268 7013	TA-SOLID 2.2U M 35V
Q642	305 014 4512	TR 2SC2412K T146 R	C633	303 113 3818	CERAMIC 1000P K 50V
	305 014 4611	TR 2SC2412K T146 S	C634	303 247 3319	CERAMIC 330P K 2K
	305 015 8727	TR 2SC2812-L6-TB	C635	303 167 8616	CERAMIC 220P K 2K
	305 015 8925	TR 2SC2812-L7-TB	C636	303 070 2619	CERAMIC 0.1U Z 50V
			C637	303 157 6813	CERAMIC 680P K 50V
			C638	303 182 8110	TA-SOLID 1U M 25V
				303 208 1415	TA-SOLID 1U M 25V
				303 411 5712	TA-SOLID 1U M 25V
			C639	303 410 7618	ELECT 220U M 35V
			C640	303 164 0217	CERAMIC 0.1U Z 25V
			C641	303 352 8216	CERAMIC 0.47U Z 16V
			C642	303 084 0311	POLYPRO 0.022U J 630V
			C643	303 256 2419	CERAMIC 0.22U Z 50V
			C644	303 417 9912	CERAMIC 4.7U K 25V
			C651	303 392 0703	ELECT 1000U M 25V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
C652	303 427 6245	ELECT 1000U M 10V	R655	301 256 7311	MT-GLAZE 6.8K JA 1/10W
C653	303 437 4713	ELECT 470U M 16V	R656	301 256 6215	MT-GLAZE 270 JA 1/10W
C654	303 164 0217	CERAMIC 0.1U Z 25V	R657	301 150 6212	MT-GLAZE 1K JA 1/10W
C655	303 164 0217	CERAMIC 0.1U Z 25V	R658	301 150 6212	MT-GLAZE 1K JA 1/10W
C656	303 345 9619	CERAMIC 0.47U K 10V	R659	301 150 6212	MT-GLAZE 1K JA 1/10W
C657	303 157 6417	CERAMIC 330P K 50V	R660	301 162 3711	MT-GLAZE 4.7K JA 1/10W
C658	303 157 6417	CERAMIC 330P K 50V	R661	301 150 5918	MT-GLAZE 10K JA 1/10W
C659	303 199 6344	ELECT 1000U M 25V	R662	301 230 8013	MT-GLAZE 1K JA 1/3W
	303 400 6822	ELECT 1000U M 25V	R663	301 162 3711	MT-GLAZE 4.7K JA 1/10W
C660	303 164 0217	CERAMIC 0.1U Z 25V	R664	301 150 5918	MT-GLAZE 10K JA 1/10W
C661	303 358 3215	CERAMIC 10U K 6.3V	VARIABLE RESISTOR		
	303 368 7319	CERAMIC 10U K 6.3V	VR611	945 025 7415	VR,SEMI,1K S
C691	303 400 7136	ELECT 330U M 25V	TRANSFORMER		
	304 106 9708	ELECT 330U M 25V	△ T651	945 077 6312	TRANS,POWER,PULSE
C693	303 219 7829	ELECT 1000U M 10V		945 083 6948	TRANS,POWER,PULSE
	303 400 5023	ELECT 1000U M 10V	COIL		
C694	303 443 4605	ELECT 1000U M 6.3V	△ L611	945 086 6853	LINE FILTER
RESISTOR			L612	945 077 6565	INDUCTOR,900U
R603	301 255 8517	MT-GLAZE 9.1K JA 1/10W		945 084 0273	INDUCTOR,1400U
R604	301 256 6611	MT-GLAZE 68K JA 1/10W	DIODE		
R606	301 162 4015	MT-GLAZE 560 JA 1/10W	D611	307 191 3903	DIODE FML-G16S
R607	301 162 2417	MT-GLAZE 1.2K JA 1/10W	D612	307 164 4015	DIODE RB160L-40-TE25
R611	302 088 0102	RESISTER 0.15 KA 2W		307 149 6327	DIODE SFPB-54V
R612	302 088 0102	RESISTER 0.15 KA 2W	D616	307 163 0414	DIODE 1SS352-(TPH3)
R615	301 242 3914	MT-GLAZE 240K JA 1/2W		307 149 0810	DIODE 1SS355-TE-17
R616	301 242 3914	MT-GLAZE 240K JA 1/2W	D617	307 163 0414	DIODE 1SS352-(TPH3)
R617	301 259 9015	MT-GLAZE 150K FA 1/2W		307 149 0810	DIODE 1SS355-TE-17
R618	301 259 9015	MT-GLAZE 150K FA 1/2W	D618	307 163 0414	DIODE 1SS352-(TPH3)
R619	301 259 9015	MT-GLAZE 150K FA 1/2W		307 149 0810	DIODE 1SS355-TE-17
R61A	301 275 2915	MT-GLAZE 68K JA 1W	D619	307 163 0414	DIODE 1SS352-(TPH3)
R61B	301 275 2915	MT-GLAZE 68K JA 1W		307 149 0810	DIODE 1SS355-TE-17
R61E	301 275 2915	MT-GLAZE 68K JA 1W	D62R	307 163 0414	DIODE 1SS352-(TPH3)
R61F	301 275 2915	MT-GLAZE 68K JA 1W		307 149 0810	DIODE 1SS355-TE-17
R620	301 259 9015	MT-GLAZE 150K FA 1/2W	D631	307 149 0810	DIODE 1SS355-TE-17
R623	301 162 3711	MT-GLAZE 4.7K JA 1/10W	D633	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
R62A	301 256 3818	MT-GLAZE 1.5K JA 1/10W		307 221 7119	ZENER DIODE UDZS-TE-1712B
R62B	301 150 5918	MT-GLAZE 10K JA 1/10W	D636	407 256 3213	DIODE CRF03(TE85L)
R62C	301 162 3810	MT-GLAZE 470K JA 1/10W	D651	307 222 9607	DIODE FMB-2306
R62D	301 255 6810	MT-GLAZE 30K JA 1/10W		307 250 2403	DIODE RB225T-60
R62E	301 256 3719	MT-GLAZE 750 JA 1/10W	D652	307 222 9706	DIODE FMJ-23L
R62F	301 264 2810	MT-GLAZE 1.2K FA 1/10W		307 250 2502	DIODE RSX1001T3
R62G	301 255 6513	MT-GLAZE 100 JA 1/10W	D653	307 247 8827	DIODE RF101L2S
R62H	301 152 3219	MT-GLAZE 330 JA 1/10W	D654	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
R62I	301 265 0914	MT-GLAZE 4.7 JA 1/10W		307 209 1214	ZD UDZS-TE-176.2B
R62J	301 162 2714	MT-GLAZE 180 JA 1/10W	DB611	307 202 7708	DIODE D10XB60
R62L	301 256 2613	MT-GLAZE 2.4K JA 1/10W	MISCELLANEOUS		
R62M	301 256 7519	MT-GLAZE 390 JA 1/10W	FB611	910 244 3975	CORE
R62P	301 256 6314	MT-GLAZE 47K JA 1/10W	FB613	910 244 3975	CORE
R62Q	301 255 8715	MT-GLAZE 22 JA 1/10W	FB691	910 244 3975	CORE
R62R	301 256 4716	MT-GLAZE 5.6M JA 1/10W	FB693	910 244 3975	CORE
R62T	301 255 9514	MT-GLAZE 220K JA 1/10W	FB694	307 210 5416	DIODE RB551V-30-TE-17
△ R631	324 006 1305	FUSE 250V 2.5A	△ PC641	307 223 7315	PC TLP421F(D4-GB-TP4)
R633	301 323 4618	MT(LEADFREE 15 JA 3/4W		307 223 8312	PC TLP421F(D4-GR-TP4)
R634	301 238 4512	MT-GLAZE 47 JA 1/3W	△ PC642	307 223 7315	PC TLP421F(D4-GB-TP4)
R635	301 150 6212	MT-GLAZE 1K JA 1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)
R636	301 257 7419	MT-GLAZE 120 JA 1/3W	△ PC643	307 223 7315	PC TLP421F(D4-GB-TP4)
R637	301 162 3711	MT-GLAZE 4.7K JA 1/10W		307 223 8312	PC TLP421F(D4-GR-TP4)
R638	301 150 5918	MT-GLAZE 10K JA 1/10W	PTH611	308 037 5501	THERMISTOR NTPDB5R0LDHB0
R639	301 256 2613	MT-GLAZE 2.4K JA 1/10W	PTH612	308 053 9101	THERMISTOR PTFM04BC222Q2N34B0
R641	301 188 0114	MT-GLAZE 18K JA 1/4W	610 334 8889 ASSY,PWB,LINE FILTER KZ6A		
R646	301 150 5918	MT-GLAZE 10K JA 1/10W			
R647	301 256 5911	MT-GLAZE 2.7K JA 1/10W			
R648	301 256 3610	MT-GLAZE 15K JA 1/10W			
R651	301 150 6212	MT-GLAZE 1K JA 1/10W			
R652	301 162 2219	MT-GLAZE 10 JA 1/10W			
R653	301 326 1713	MT-GLAZE 10K DA 1/10W			
R654	301 152 3219	MT-GLAZE 330 JA 1/10W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
CAPACITOR					
△C601	304 079 5608	MT-POLYEST 0.47U M 275V	Q8754	305 191 5814	TR 3LN01C-TB-E
	304 094 2002	MT-POLYEST 0.47U K 275V	Q8756	305 134 5928	TR 2SA1037AK-T146-R
△C602	304 079 5608	MT-POLYEST 0.47U M 275V		305 147 2218	TR 2SA1037AK-S-T146
	304 094 2002	MT-POLYEST 0.47U K 275V		305 173 9618	TR 2SA1235A1E
RESISTOR				305 173 9717	TR 2SA1235A1F
△R601	301 287 9018	MT-GLAZE 470K JA 1W		405 220 3115	TR ISA1235AC1E
△R602	301 287 9018	MT-GLAZE 470K JA 1W		405 220 3016	TR ISA1235AC1F
VARIABLE RESISTOR			Q8757	305 191 5814	TR 3LN01C-TB-E
△VA601	308 061 5607	VARISTOR ENE471D-14A-S6	Q8758	305 191 5814	TR 3LN01C-TB-E
COIL			Q8759	305 191 5814	TR 3LN01C-TB-E
△L601	945 050 2232	LINE FILTER	INTEGRATED CIRCUIT		
MISCELLANEOUS			IC8701	410 628 6603	IC R5F21134FP-C803B
△F601	323 021 7804	FUSE 250V 6.3A	IC8703	309 155 7329	IC TC4S71F-TE85R
SW901	945 063 8078	SWITCH,PUSH 2P-2TX3	IC8708	310 596 5205	IC S-1000C27-M5T1G
			IC8712	309 482 3817	IC NJM2360AM(TE2)
610 331 4204 ASSY,PWB,ALARM-B LG6AC			CAPACITOR		
RESISTOR			C8701	303 342 3313	CERAMIC 0.1U K 25V
R8751	301 256 2019	MT-GLAZE 430 JA 1/10W		304 095 0809	CERAMIC 0.1U K 25V
DIODE			C8702	303 342 3313	CERAMIC 0.1U K 25V
D8751	307 204 0014	LED SML-210LT T86 L		304 095 0809	CERAMIC 0.1U K 25V
	307 203 7816	LED SML-210LT T86 M	C8703	303 342 3313	CERAMIC 0.1U K 25V
MISCELLANEOUS				304 095 0809	CERAMIC 0.1U K 25V
SW8751	910 011 1791	SWITCH,PUSH	C8704	303 342 3313	CERAMIC 0.1U K 25V
SW8752	910 011 1791	SWITCH,PUSH		304 095 0809	CERAMIC 0.1U K 25V
SW8753	910 011 1791	SWITCH,PUSH	C8705	303 391 5313	ELECT 47U M 6.3V
SW8754	910 011 1791	SWITCH,PUSH		303 184 8019	ELECT 47U M 6.3V
610 338 3453 ASSY,PWB,ALARM-A KJ7AC			C8706	303 305 9918	CERAMIC 680P J 25V
TRANSISTOR			C8707	303 398 3817	ELECT 220U M 16V
Q8701	305 014 4512	TR 2SC2412K T146 R		403 457 1416	ELECT 220U M 16V
	305 014 4611	TR 2SC2412K T146 S	RESISTOR		
	305 015 8727	TR 2SC2812-L6-TB	R8701	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 015 8925	TR 2SC2812-L7-TB	R8702	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 163 1615	TR 2SC2812N-L6-TB0	R8703	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 173 9816	TR 2SC3928A1R	R8704	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 173 9915	TR 2SC3928A1S	R8706	301 255 8111	MT-GLAZE 5.1K JA 1/10W
Q8702	305 014 4512	TR 2SC2412K T146 R	R8707	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 014 4611	TR 2SC2412K T146 S	R8709	301 162 3612	MT-GLAZE 470 JA 1/10W
	305 015 8727	TR 2SC2812-L6-TB	R8711	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 015 8925	TR 2SC2812-L7-TB	R8712	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 163 1615	TR 2SC2812N-L6-TB0	R8713	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 173 9816	TR 2SC3928A1R	R8714	301 162 3117	MT-GLAZE 3.3K JA 1/10W
	305 173 9915	TR 2SC3928A1S	R8715	301 162 3117	MT-GLAZE 3.3K JA 1/10W
Q8751	305 134 5928	TR 2SA1037AK-T146-R	R8716	301 162 3117	MT-GLAZE 3.3K JA 1/10W
	305 147 2218	TR 2SA1037AK-S-T146	R8717	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 173 9618	TR 2SA1235A1E	R8718	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 173 9717	TR 2SA1235A1F	R8719	301 150 5918	MT-GLAZE 10K JA 1/10W
	405 220 3115	TR ISA1235AC1E	R8721	301 150 5918	MT-GLAZE 10K JA 1/10W
	405 220 3016	TR ISA1235AC1F	R8722	301 150 6212	MT-GLAZE 1K JA 1/10W
Q8752	305 014 4512	TR 2SC2412K T146 R	R8723	301 162 3612	MT-GLAZE 470 JA 1/10W
	305 014 4611	TR 2SC2412K T146 S	R8724	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 015 8727	TR 2SC2812-L6-TB	R8726	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 015 8925	TR 2SC2812-L7-TB	R8731	301 150 5918	MT-GLAZE 10K JA 1/10W
	305 163 1615	TR 2SC2812N-L6-TB0	R8732	301 150 5819	MT-GLAZE 100K JA 1/10W
	305 173 9816	TR 2SC3928A1R	R8733	301 255 6513	MT-GLAZE 100 JA 1/10W
	305 173 9915	TR 2SC3928A1S	R8747	301 162 3810	MT-GLAZE 470K JA 1/10W
Q8753	305 191 5814	TR 3LN01C-TB-E	R8748	301 150 5819	MT-GLAZE 100K JA 1/10W
			R8749	301 150 5819	MT-GLAZE 100K JA 1/10W
			R8750	301 256 5812	MT-GLAZE 270K JA 1/10W
			R8752	301 234 4714	MT-GLAZE 3.3 JA 1W
			R8754	301 256 0213	MT-GLAZE 120K JA 1/10W
			R8755	301 234 4714	MT-GLAZE 3.3 JA 1W
			R8756	301 255 5912	MT-GLAZE 200 JA 1/10W
			R8757	301 255 9712	MT-GLAZE 82K JA 1/10W
			R8758	301 255 8517	MT-GLAZE 9.1K JA 1/10W
			R8759	301 256 0213	MT-GLAZE 120K JA 1/10W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R8761	301 150 6113	MT-GLAZE 2.2K JA 1/10W		305 173 9816	TR 2SC3928A1R
R8762	301 150 6212	MT-GLAZE 1K JA 1/10W		305 173 9915	TR 2SC3928A1S
R8763	301 150 6212	MT-GLAZE 1K JA 1/10W	Q1051	305 134 5928	TR 2SA1037AK-T146-R
R8764	301 255 8111	MT-GLAZE 5.1K JA 1/10W		305 147 2218	TR 2SA1037AK-S-T146
R8765	301 150 6014	MT-GLAZE 0.000 ZA 1/10W		305 173 9618	TR 2SA1235A1E
R8771	301 234 4714	MT-GLAZE 3.3 JA 1W		305 173 9717	TR 2SA1235A1F
R8772	301 234 4714	MT-GLAZE 3.3 JA 1W		405 220 3115	TR ISA1235AC1E
R8773	301 162 3117	MT-GLAZE 3.3K JA 1/10W		405 220 3016	TR ISA1235AC1F
R8776	301 162 3117	MT-GLAZE 3.3K JA 1/10W	Q1061	305 134 5928	TR 2SA1037AK-T146-R
R8777	301 150 6212	MT-GLAZE 1K JA 1/10W		305 147 2218	TR 2SA1037AK-S-T146
R8778	301 255 9514	MT-GLAZE 220K JA 1/10W		305 173 9618	TR 2SA1235A1E
R8779	301 255 9514	MT-GLAZE 220K JA 1/10W		305 173 9717	TR 2SA1235A1F
R8782	301 150 6014	MT-GLAZE 0.000 ZA 1/10W		405 220 3115	TR ISA1235AC1E
R8784	301 150 6014	MT-GLAZE 0.000 ZA 1/10W		405 220 3016	TR ISA1235AC1F
R8787	301 150 6014	MT-GLAZE 0.000 ZA 1/10W	Q1062	305 014 4512	TR 2SC2412K T146 R
COIL				305 014 4611	TR 2SC2412K T146 S
L6801	945 033 7995	INDUCTOR,100U M		305 015 8727	TR 2SC2812-L6-TB
DIODE				305 015 8925	TR 2SC2812-L7-TB
D8701	307 163 0414	DIODE 1SS352-(TPH3)		305 163 1615	TR 2SC2812N-L6-TB0
	307 149 0810	DIODE 1SS355-TE-17		305 173 9816	TR 2SC3928A1R
D8702	307 210 5416	DIODE RB551V-30-TE-17	Q1071	305 173 9915	TR 2SC3928A1S
D8703	307 210 5416	DIODE RB551V-30-TE-17		305 134 5928	TR 2SA1037AK-T146-R
D8704	307 210 5416	DIODE RB551V-30-TE-17		305 147 2218	TR 2SA1037AK-S-T146
D8708	307 210 5416	DIODE RB551V-30-TE-17		305 173 9618	TR 2SA1235A1E
D8709	307 210 5416	DIODE RB551V-30-TE-17		305 173 9717	TR 2SA1235A1F
MISCELLANEOUS				405 220 3115	TR ISA1235AC1E
IC8706A	910 325 2491	STOPPER FLT BATTERY B-PZ5A		405 220 3016	TR ISA1235AC1F
	610 332 3541	STOPPER FLT BATTERY B-LG6AC	Q1801	305 191 5814	TR 3LN01C-TB-E
IC8706B	910 325 2651	STOPPER FLT BATTERY A-PZ5A	Q1802	305 191 5814	TR 3LN01C-TB-E
	610 332 3589	STOPPER FLT BATTERY A-LG6AC	Q1803	305 014 4512	TR 2SC2412K T146 R
IC8709	420 002 2404	PZ BZR PKM22EPPH4007		305 014 4611	TR 2SC2412K T146 S
IC8710	945 081 3857	SWITCH,SENSOR 2P-2T		305 015 8727	TR 2SC2812-L6-TB
SW8702	945 063 5176	SWITCH,PUSH 2P-2TX3		305 015 8925	TR 2SC2812-L7-TB
610 338 3477 ASSY,PWB,R/C KJ7AC				305 163 1615	TR 2SC2812N-L6-TB0
CAPACITOR				305 173 9816	TR 2SC3928A1R
C2951	303 283 6312	CERAMIC 1U Z 10V		305 173 9915	TR 2SC3928A1S
C2952	303 157 6615	CERAMIC 470P K 50V	Q2021	305 014 4512	TR 2SC2412K T146 R
C2953	303 378 3110	CERAMIC 47U Z 6.3V		305 014 4611	TR 2SC2412K T146 S
RESISTOR				305 015 8727	TR 2SC2812-L6-TB
R2951	301 256 5614	MT-GLAZE 47 JA 1/10W		305 015 8925	TR 2SC2812-L7-TB
R2952	301 255 6513	MT-GLAZE 100 JA 1/10W		305 163 1615	TR 2SC2812N-L6-TB0
MISCELLANEOUS				305 173 9816	TR 2SC3928A1R
A2951	945 084 1997	UNIT,REMOCON RECEIVER		305 173 9915	TR 2SC3928A1S
610 339 2059 ASSY,PWB,MAIN KJ7YC			Q2031	305 014 4512	TR 2SC2412K T146 R
TRANSISTOR				305 014 4611	TR 2SC2412K T146 S
Q101	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
	305 173 9816	TR 2SC3928A1R	Q3051	305 014 4512	TR 2SC2412K T146 R
	305 173 9915	TR 2SC3928A1S		305 014 4611	TR 2SC2412K T146 S
Q1031	305 014 4512	TR 2SC2412K T146 R		305 015 8727	TR 2SC2812-L6-TB
	305 014 4611	TR 2SC2412K T146 S		305 015 8925	TR 2SC2812-L7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1615	TR 2SC2812N-L6-TB0
	305 015 8925	TR 2SC2812-L7-TB		305 173 9816	TR 2SC3928A1R
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9915	TR 2SC3928A1S
			Q3501	305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q3502	305 015 8925	TR 25C2812-L7-TB	Q5034	305 173 9915	TR 25C3928A1S
	305 163 1615	TR 25C2812N-L6-TB0		305 014 4512	TR 25C2412K T146 R
	305 173 9816	TR 25C3928A1R		305 014 4611	TR 25C2412K T146 S
	305 173 9915	TR 25C3928A1S		305 015 8727	TR 25C2812-L6-TB
	305 002 8327	TR 25A1203-Y-TE12L		305 015 8925	TR 25C2812-L7-TB
	305 014 4512	TR 25C2412K T146 R		305 163 1615	TR 25C2812N-L6-TB0
	305 014 4611	TR 25C2412K T146 S		305 173 9816	TR 25C3928A1R
	305 015 8727	TR 25C2812-L6-TB		305 173 9915	TR 25C3928A1S
	305 015 8925	TR 25C2812-L7-TB		305 014 4512	TR 25C2412K T146 R
	305 163 1615	TR 25C2812N-L6-TB0		305 014 4611	TR 25C2412K T146 S
Q3582	305 173 9816	TR 25C3928A1R	Q5036	305 015 8727	TR 25C2812-L6-TB
	305 173 9915	TR 25C3928A1S		305 015 8925	TR 25C2812-L7-TB
	305 002 8327	TR 25A1203-Y-TE12L		305 163 1615	TR 25C2812N-L6-TB0
	305 014 4512	TR 25C2412K T146 R		305 173 9816	TR 25C3928A1R
	305 014 4611	TR 25C2412K T146 S		305 173 9915	TR 25C3928A1S
	305 015 8727	TR 25C2812-L6-TB	Q5061	305 014 4512	TR 25C2412K T146 R
	305 015 8925	TR 25C2812-L7-TB		305 014 4611	TR 25C2412K T146 S
	305 163 1615	TR 25C2812N-L6-TB0		305 015 8727	TR 25C2812-L6-TB
	305 173 9816	TR 25C3928A1R		305 015 8925	TR 25C2812-L7-TB
	305 173 9915	TR 25C3928A1S		305 163 1615	TR 25C2812N-L6-TB0
Q3801	305 045 8728	TR 25K536-TB		305 173 9816	TR 25C3928A1R
	305 134 5928	TR 25A1037AK-T146-R		305 173 9915	TR 25C3928A1S
	305 147 2218	TR 25A1037AK-S-T146	Q5062	305 014 4512	TR 25C2412K T146 R
	305 173 9618	TR 25A1235A1E		305 014 4611	TR 25C2412K T146 S
	305 173 9717	TR 25A1235A1F		305 015 8727	TR 25C2812-L6-TB
	405 220 3115	TR ISA1235AC1E		305 015 8925	TR 25C2812-L7-TB
	405 220 3016	TR ISA1235AC1F		305 163 1615	TR 25C2812N-L6-TB0
Q4001	305 134 5928	TR 25A1037AK-T146-R		305 173 9816	TR 25C3928A1R
	305 147 2218	TR 25A1037AK-S-T146		305 173 9915	TR 25C3928A1S
	305 173 9618	TR 25A1235A1E	Q5063	305 014 4512	TR 25C2412K T146 R
	305 173 9717	TR 25A1235A1F		305 014 4611	TR 25C2412K T146 S
	405 220 3115	TR ISA1235AC1E		305 015 8727	TR 25C2812-L6-TB
	405 220 3016	TR ISA1235AC1F		305 015 8925	TR 25C2812-L7-TB
Q4011	305 134 5928	TR 25A1037AK-T146-R		305 163 1615	TR 25C2812N-L6-TB0
	305 147 2218	TR 25A1037AK-S-T146		305 173 9816	TR 25C3928A1R
	305 173 9618	TR 25A1235A1E		305 173 9915	TR 25C3928A1S
	305 173 9717	TR 25A1235A1F	Q5064	305 014 4512	TR 25C2412K T146 R
	405 220 3115	TR ISA1235AC1E		305 014 4611	TR 25C2412K T146 S
	405 220 3016	TR ISA1235AC1F		305 015 8727	TR 25C2812-L6-TB
Q4014	305 014 4512	TR 25C2412K T146 R		305 015 8925	TR 25C2812-L7-TB
	305 014 4611	TR 25C2412K T146 S		305 163 1615	TR 25C2812N-L6-TB0
	305 015 8727	TR 25C2812-L6-TB		305 173 9816	TR 25C3928A1R
	305 015 8925	TR 25C2812-L7-TB		305 173 9915	TR 25C3928A1S
	305 163 1615	TR 25C2812N-L6-TB0	Q5081	305 014 4512	TR 25C2412K T146 R
	305 173 9816	TR 25C3928A1R		305 014 4611	TR 25C2412K T146 S
	305 173 9915	TR 25C3928A1S		305 015 8727	TR 25C2812-L6-TB
Q4071	305 014 4512	TR 25C2412K T146 R		305 015 8925	TR 25C2812-L7-TB
	305 014 4611	TR 25C2412K T146 S		305 163 1615	TR 25C2812N-L6-TB0
	305 015 8727	TR 25C2812-L6-TB		305 173 9816	TR 25C3928A1R
	305 015 8925	TR 25C2812-L7-TB		305 173 9915	TR 25C3928A1S
	305 163 1615	TR 25C2812N-L6-TB0	Q5203	305 014 4512	TR 25C2412K T146 R
	305 173 9816	TR 25C3928A1R		305 014 4611	TR 25C2412K T146 S
	305 173 9915	TR 25C3928A1S		305 015 8727	TR 25C2812-L6-TB
Q5031	305 014 4512	TR 25C2412K T146 R		305 015 8925	TR 25C2812-L7-TB
	305 014 4611	TR 25C2412K T146 S		305 163 1615	TR 25C2812N-L6-TB0
	305 015 8727	TR 25C2812-L6-TB		305 173 9816	TR 25C3928A1R
	305 015 8925	TR 25C2812-L7-TB		305 173 9915	TR 25C3928A1S
	305 163 1615	TR 25C2812N-L6-TB0	Q5251	305 014 4512	TR 25C2412K T146 R
	305 173 9816	TR 25C3928A1R		305 014 4611	TR 25C2412K T146 S
	305 173 9915	TR 25C3928A1S		305 015 8727	TR 25C2812-L6-TB
Q5032	305 014 4512	TR 25C2412K T146 R		305 015 8925	TR 25C2812-L7-TB
	305 014 4611	TR 25C2412K T146 S		305 163 1615	TR 25C2812N-L6-TB0
	305 015 8727	TR 25C2812-L6-TB		305 173 9816	TR 25C3928A1R
	305 015 8925	TR 25C2812-L7-TB		305 173 9915	TR 25C3928A1S
	305 163 1615	TR 25C2812N-L6-TB0	Q5252	305 134 5928	TR 25A1037AK-T146-R
	305 173 9816	TR 25C3928A1R		305 147 2218	TR 25A1037AK-S-T146
	305 173 9915	TR 25C3928A1S		305 173 9618	TR 25A1235A1E
Q5033	305 014 4512	TR 25C2412K T146 R		305 173 9717	TR 25A1235A1F
	305 014 4611	TR 25C2412K T146 S		405 220 3115	TR ISA1235AC1E
	305 015 8727	TR 25C2812-L6-TB		405 220 3016	TR ISA1235AC1F
	305 015 8925	TR 25C2812-L7-TB		305 134 5928	TR 25A1037AK-T146-R
	305 163 1615	TR 25C2812N-L6-TB0		305 147 2218	TR 25A1037AK-S-T146
	305 173 9816	TR 25C3928A1R		305 173 9618	TR 25A1235A1E
	305 173 9915	TR 25C3928A1S		305 173 9717	TR 25A1235A1F

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Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q7801	305 015 8727	TR 25C2812-L6-TB	IC801	410 653 8405	IC S29GL032A90TFIR-0855
	305 015 8925	TR 25C2812-L7-TB	IC8201	310 519 2007	IC AD9883AKSTZ-140
	305 163 1615	TR 25C2812N-L6-TB0	IC8291	309 592 8511	IC BA15BC0FP
	305 173 9816	TR 25C3928A1R		309 673 6917	IC TA48015AF
	305 173 9915	TR 25C3928A1S	IC8811	309 481 8615	IC LM76CHMX-5
	305 014 4512	TR 25C2412K T146 R	IC8821	309 481 8615	IC LM76CHMX-5
	305 014 4611	TR 25C2412K T146 S	IC8831	309 481 8615	IC LM76CHMX-5
	305 015 8727	TR 25C2812-L6-TB	IC891	310 337 0605	IC HD74LVC14T
	305 015 8925	TR 25C2812-L7-TB	IC9882	309 464 1411	IC TC74ACT14FT
	305 163 1615	TR 25C2812N-L6-TB0			
Q7811	305 173 9816	TR 25C3928A1R	CAPACITOR		
	305 173 9915	TR 25C3928A1S	C101	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	305 014 4512	TR 25C2412K T146 R	C102	303 379 6714	CERAMIC 10U K 16V
	305 014 4611	TR 25C2412K T146 S	C103	403 461 3710	CERAMIC 0.1U Z 25V
	305 015 8727	TR 25C2812-L6-TB		303 454 0514	CERAMIC 0.1U Z 25V
	305 015 8925	TR 25C2812-L7-TB		303 343 3718	CERAMIC 0.1U Z 25V
	305 163 1615	TR 25C2812N-L6-TB0	C104	303 384 4712	TA-SOLID 47U M 6.3V
	305 173 9816	TR 25C3928A1R		303 449 1212	POS-SOLID 47U M 6.3V
	305 173 9915	TR 25C3928A1S	C1041	303 453 9716	CERAMIC 0.022U K 25V
	305 217 8515	TR RSQ025P03-TR	C1042	303 409 3426	CERAMIC 0.1U K 16V
Q7813	305 139 7719	TR IMZ1A-T108	C105	403 461 3710	CERAMIC 0.1U Z 25V
Q7861	305 014 4512	TR 25C2412K T146 R		303 454 0514	CERAMIC 0.1U Z 25V
	305 014 4611	TR 25C2412K T146 S		303 343 3718	CERAMIC 0.1U Z 25V
	305 015 8727	TR 25C2812-L6-TB	C1051	303 409 3426	CERAMIC 0.1U K 16V
	305 015 8925	TR 25C2812-L7-TB	C1091	303 453 9716	CERAMIC 0.022U K 25V
	305 163 1615	TR 25C2812N-L6-TB0	C1092	303 368 7319	CERAMIC 10U K 6.3V
	305 173 9816	TR 25C3928A1R	C130	303 454 0415	CERAMIC 0.068U K 16V
	305 173 9915	TR 25C3928A1S	C131	303 454 0415	CERAMIC 0.068U K 16V
	305 217 8515	TR RSQ025P03-TR	C132	303 454 0415	CERAMIC 0.068U K 16V
	305 139 7719	TR IMZ1A-T108	C133	303 454 0415	CERAMIC 0.068U K 16V
			C1331	303 453 7118	CERAMIC 12P J 50V
INTEGRATED CIRCUIT				303 453 9112	CERAMIC 12P J 50V
IC101	309 635 1219	IC UPD64012GJ-8EN		303 276 2918	CERAMIC 12P J 50V
IC1041	310 517 6809	IC TC74LVX4053FT	C1332	303 453 7118	CERAMIC 12P J 50V
IC1051	309 462 0327	IC 24LC21AT/SN		303 453 9112	CERAMIC 12P J 50V
IC1341	309 301 5312	IC TC7532FU-TE85L		303 276 2918	CERAMIC 12P J 50V
IC1371	310 538 4907	IC 24LC64T-I/SNG	C134	303 454 0415	CERAMIC 0.068U K 16V
IC1471	310 479 4004	IC TC7WBD125AFK	C135	303 454 0415	CERAMIC 0.068U K 16V
IC1571	310 479 4004	IC TC7WBD125AFK	C136	303 454 0415	CERAMIC 0.068U K 16V
IC161	309 416 6419	IC BA033FP-E2	C137	303 454 0415	CERAMIC 0.068U K 16V
	309 588 6316	IC BA33BC0FP	C1371	403 461 3710	CERAMIC 0.1U Z 25V
	309 673 6412	IC TA48033AF		303 454 0514	CERAMIC 0.1U Z 25V
IC1801	309 671 7817	IC TE7783APF		303 343 3718	CERAMIC 0.1U Z 25V
	309 633 6117	IC TE7783PF	C138	303 454 0415	CERAMIC 0.068U K 16V
IC301	309 649 1311	IC PW186-10L	C139	303 454 0415	CERAMIC 0.068U K 16V
IC3571	309 431 4424	IC M62334FP-DF5Q	C140	303 379 6714	CERAMIC 10U K 16V
IC3801	309 652 0714	IC HIN202EIBNZ-T	C141	403 461 3710	CERAMIC 0.1U Z 25V
IC4011	310 358 1506	IC TC74HC4053AFT(EL)		303 454 0514	CERAMIC 0.1U Z 25V
IC4071	310 348 7501	IC TC7WT241FU(Te12L)		303 343 3718	CERAMIC 0.1U Z 25V
IC4891	309 404 7213	IC TC7SET00FU-(TE85L)	C142	403 461 3710	CERAMIC 0.1U Z 25V
IC5001	309 564 1519	IC NJW1141M(Te2)		303 454 0514	CERAMIC 0.1U Z 25V
IC5031	309 594 1916	IC LM4889MMX		303 343 3718	CERAMIC 0.1U Z 25V
IC5081	309 398 1914	IC L88MS05TL-TL-E	C143	403 461 3710	CERAMIC 0.1U Z 25V
IC5201	309 530 7217	IC AN5870SB-E1V		303 454 0514	CERAMIC 0.1U Z 25V
IC5301	309 484 2016	IC BA7078AF-E2		303 343 3718	CERAMIC 0.1U Z 25V
IC5302	309 439 8919	IC TC7WH125FU	C144	403 461 3710	CERAMIC 0.1U Z 25V
IC5601	309 416 6518	IC BA05FP-E2		303 454 0514	CERAMIC 0.1U Z 25V
	309 591 8611	IC BA50BC0FP		303 343 3718	CERAMIC 0.1U Z 25V
	309 673 6313	IC TA4805AF	C145	403 461 3710	CERAMIC 0.1U Z 25V
IC5621	309 670 0314	IC BD12KA5WFP		303 454 0514	CERAMIC 0.1U Z 25V
IC5641	309 563 9615	IC SI-3012KS-TL		303 343 3718	CERAMIC 0.1U Z 25V
IC5642	309 497 6315	IC BA09FP-E2	C146	403 461 3710	CERAMIC 0.1U Z 25V
IC5651	309 555 6318	IC BA9743AFV-E2		303 454 0514	CERAMIC 0.1U Z 25V
IC5681	309 563 9615	IC SI-3012KS-TL		303 343 3718	CERAMIC 0.1U Z 25V
IC5691	309 531 6229	IC FA7701V-TE1	C147	403 461 3710	CERAMIC 0.1U Z 25V
IC5712	310 616 3402	IC PST413A300NR		303 454 0514	CERAMIC 0.1U Z 25V
IC7811	309 531 6229	IC FA7701V-TE1		303 343 3718	CERAMIC 0.1U Z 25V
IC7861	309 531 6229	IC FA7701V-TE1	C1471	303 409 3426	CERAMIC 0.1U K 16V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C148	403 461 3710	CERAMIC	0.1U Z	25V		303 442 0212	CERAMIC	0.22U Z	16V
	303 454 0514	CERAMIC	0.1U Z	25V	C175	303 394 1312	ELECT	100U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 387 4917	ELECT	100U M	6.3V
C149	403 461 3710	CERAMIC	0.1U Z	25V	C176	303 453 9310	CERAMIC	0.22U Z	16V
	303 454 0514	CERAMIC	0.1U Z	25V		303 442 0212	CERAMIC	0.22U Z	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C180	303 453 8214	CERAMIC	10P J	50V
C150	403 461 3710	CERAMIC	0.1U Z	25V		303 453 9013	CERAMIC	10P J	50V
	303 454 0514	CERAMIC	0.1U Z	25V		303 279 6210	CERAMIC	10P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V	C1801	403 461 3710	CERAMIC	0.1U Z	25V
C151	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1802	403 461 3710	CERAMIC	0.1U Z	25V
C152	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1803	403 461 3710	CERAMIC	0.1U Z	25V
C153	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C1804	303 453 8511	CERAMIC	1000P K	50V
C154	403 461 3710	CERAMIC	0.1U Z	25V		303 454 1214	CERAMIC	1000P K	50V
	303 454 0514	CERAMIC	0.1U Z	25V	C1805	303 453 7910	CERAMIC	18P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0712	CERAMIC	18P J	50V
C155	403 461 3710	CERAMIC	0.1U Z	25V		303 276 2819	CERAMIC	18P J	50V
	303 454 0514	CERAMIC	0.1U Z	25V	C1806	403 461 3710	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C156	403 461 3710	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C1807	403 461 3710	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C157	403 461 3710	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C1808	403 461 3710	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C1571	303 409 3426	CERAMIC	0.1U K	16V		303 343 3718	CERAMIC	0.1U Z	25V
C158	403 461 3710	CERAMIC	0.1U Z	25V	C1809	403 461 3710	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C159	403 461 3710	CERAMIC	0.1U Z	25V	C1810	403 461 3710	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C160	403 461 3710	CERAMIC	0.1U Z	25V	C1811	403 461 3710	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C161	403 461 3710	CERAMIC	0.1U Z	25V	C1812	403 461 3710	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C162	303 453 7316	CERAMIC	8P J	50V	C1820	403 461 3710	CERAMIC	0.1U Z	25V
C163	303 453 7316	CERAMIC	8P J	50V		303 454 0514	CERAMIC	0.1U Z	25V
C164	403 461 3710	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C1821	403 461 3710	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C165	403 461 3710	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C1822	403 461 3710	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C166	403 461 3710	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C1823	403 461 3710	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C167	403 461 3710	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C1830	303 384 4712	TA-SOLID	47U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 449 1212	POS-SOLID	47U M	6.3V
C168	403 461 3710	CERAMIC	0.1U Z	25V	C1831	403 461 3710	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
C170	303 453 9310	CERAMIC	0.22U Z	16V	C1833	403 461 3710	CERAMIC	0.1U Z	25V
	303 442 0212	CERAMIC	0.22U Z	16V		303 454 0514	CERAMIC	0.1U Z	25V
C171	303 453 9310	CERAMIC	0.22U Z	16V		303 343 3718	CERAMIC	0.1U Z	25V
	303 442 0212	CERAMIC	0.22U Z	16V	C1837	303 453 6616	CERAMIC	6P D	50V
C173	303 453 9310	CERAMIC	0.22U Z	16V		303 454 0217	CERAMIC	6P D	50V
	303 442 0212	CERAMIC	0.22U Z	16V		303 279 2915	CERAMIC	6P D	50V
C174	303 453 9310	CERAMIC	0.22U Z	16V	C1871	403 461 3710	CERAMIC	0.1U Z	25V

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C2001	303 454 0514	CERAMIC	0.1U Z	25V	C2573	303 373 5218	CERAMIC	1U Z	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 396 9613	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C2574	303 391 5511	ELECT	10U M	16V
C2002	303 453 8610	CERAMIC	0.1U K	16V	C2891	303 175 7212	ELECT	10U M	16V
	303 384 4712	TA-SOLID	47U M	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2013	303 449 1212	POS-SOLID	47U M	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	403 461 3710	CERAMIC	0.1U Z	25V	C2892	303 343 3718	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 453 7217	CERAMIC	47P J	50V
C2023	303 343 3718	CERAMIC	0.1U Z	25V		303 454 1610	CERAMIC	47P J	50V
	303 391 5412	ELECT	22U M	6.3V	C3001	303 305 8812	CERAMIC	47P J	50V
	303 391 5412	ELECT	22U M	6.3V		303 323 8818	CERAMIC	2.2U Z	16V
C2041	303 323 8818	CERAMIC	2.2U Z	16V	C301	403 461 3710	CERAMIC	0.1U Z	25V
C2051	303 323 8818	CERAMIC	2.2U Z	16V	C3011	303 454 0514	CERAMIC	0.1U Z	25V
C2504	303 453 8016	CERAMIC	1U Z	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V		303 323 8818	CERAMIC	2.2U Z	16V
	303 373 5218	CERAMIC	1U Z	6.3V	C302	403 461 3710	CERAMIC	0.1U Z	25V
C2506	303 396 9613	CERAMIC	1U K	25V	C303	303 454 0514	CERAMIC	0.1U Z	25V
	303 396 9613	CERAMIC	1U K	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 396 9613	CERAMIC	1U K	25V		403 461 3710	CERAMIC	0.1U Z	25V
C2509	303 453 8016	CERAMIC	1U Z	6.3V	C304	303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2511	303 453 8016	CERAMIC	1U Z	6.3V	C3051	303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		303 453 6319	CERAMIC	100P J	50V
C2512	303 453 8016	CERAMIC	1U Z	6.3V	C3052	303 454 0910	CERAMIC	100P J	50V
	303 454 1313	CERAMIC	1U Z	6.3V		303 294 6110	CERAMIC	100P J	50V
	303 373 5218	CERAMIC	1U Z	6.3V		303 439 8412	CERAMIC	2.2U M	6.3V
C2513	303 396 9613	CERAMIC	1U K	25V	C3053	403 455 1012	CERAMIC	1U K	10V
C2514	303 391 5511	ELECT	10U M	16V	C306	303 433 1112	CERAMIC	1U K	10V
	303 175 7212	ELECT	10U M	16V		403 461 3710	CERAMIC	0.1U Z	25V
	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
C2534	303 454 1313	CERAMIC	1U Z	6.3V	C3061	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		303 453 6319	CERAMIC	100P J	50V
	303 391 5115	ELECT	100U M	16V		303 454 0910	CERAMIC	100P J	50V
C2535	303 296 9515	ELECT	100U M	16V	C307	303 294 6110	CERAMIC	100P J	50V
	303 396 9613	CERAMIC	1U K	25V		403 461 3710	CERAMIC	0.1U Z	25V
	303 396 9613	CERAMIC	1U K	25V		303 454 0514	CERAMIC	0.1U Z	25V
C2537	303 396 9613	CERAMIC	1U K	25V	C308	303 343 3718	CERAMIC	0.1U Z	25V
C2538	303 396 9613	CERAMIC	1U K	25V		403 461 3710	CERAMIC	0.1U Z	25V
C2539	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V	C309	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2541	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V	C3091	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2542	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V	C311	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2543	303 396 9613	CERAMIC	1U K	25V		303 454 0514	CERAMIC	0.1U Z	25V
C2544	303 391 5511	ELECT	10U M	16V	C312	303 343 3718	CERAMIC	0.1U Z	25V
	303 175 7212	ELECT	10U M	16V		403 461 3710	CERAMIC	0.1U Z	25V
	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
C2564	303 454 1313	CERAMIC	1U Z	6.3V	C313	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
	303 391 5115	ELECT	100U M	16V		303 454 0514	CERAMIC	0.1U Z	25V
C2565	303 296 9515	ELECT	100U M	16V	C314	303 343 3718	CERAMIC	0.1U Z	25V
	303 396 9613	CERAMIC	1U K	25V		403 461 3710	CERAMIC	0.1U Z	25V
	303 396 9613	CERAMIC	1U K	25V		303 454 0514	CERAMIC	0.1U Z	25V
C2567	303 396 9613	CERAMIC	1U K	25V	C316	303 343 3718	CERAMIC	0.1U Z	25V
C2568	303 396 9613	CERAMIC	1U K	25V		403 461 3710	CERAMIC	0.1U Z	25V
C2569	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V	C317	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2571	303 453 8016	CERAMIC	1U Z	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 1313	CERAMIC	1U Z	6.3V	C318	303 343 3718	CERAMIC	0.1U Z	25V
	303 373 5218	CERAMIC	1U Z	6.3V		403 461 3710	CERAMIC	0.1U Z	25V
C2572	303 453 8016	CERAMIC	1U Z	6.3V					
	303 454 1313	CERAMIC	1U Z	6.3V					

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C319	303 454 0514	CERAMIC	0.1U Z	25V	C3801	303 439 8412	CERAMIC	2.2U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C3802	303 439 8412	CERAMIC	2.2U M	6.3V
	403 461 3710	CERAMIC	0.1U Z	25V	C3803	303 439 8412	CERAMIC	2.2U M	6.3V
	303 454 0514	CERAMIC	0.1U Z	25V	C3804	303 439 8412	CERAMIC	2.2U M	6.3V
C321	303 343 3718	CERAMIC	0.1U Z	25V	C3806	303 454 1412	CERAMIC	1U Z	10V
	403 461 3710	CERAMIC	0.1U Z	25V		303 442 2018	CERAMIC	1U Z	10V
	303 454 0514	CERAMIC	0.1U Z	25V	C4001	303 453 8917	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
C322	403 461 3710	CERAMIC	0.1U Z	25V	C4002	303 453 8917	CERAMIC	0.1U K	16V
	303 454 0514	CERAMIC	0.1U Z	25V		303 453 8610	CERAMIC	0.1U K	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C4003	403 461 3710	CERAMIC	0.1U Z	25V
	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C323	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C401	303 453 8016	CERAMIC	1U Z	6.3V
	403 461 3710	CERAMIC	0.1U Z	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 454 0514	CERAMIC	0.1U Z	25V		303 373 5218	CERAMIC	1U Z	6.3V
C324	303 343 3718	CERAMIC	0.1U Z	25V	C4011	403 461 3710	CERAMIC	0.1U Z	25V
	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C4012	403 461 3710	CERAMIC	0.1U Z	25V
C326	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C4013	403 461 3710	CERAMIC	0.1U Z	25V
	403 461 3710	CERAMIC	0.1U Z	25V		303 454 0514	CERAMIC	0.1U Z	25V
C327	303 454 0514	CERAMIC	0.1U Z	25V		303 343 3718	CERAMIC	0.1U Z	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C402	303 453 8016	CERAMIC	1U Z	6.3V
	403 455 1012	CERAMIC	1U K	10V		303 454 1313	CERAMIC	1U Z	6.3V
	303 433 1112	CERAMIC	1U K	10V		303 373 5218	CERAMIC	1U Z	6.3V
C329	403 461 3710	CERAMIC	0.1U Z	25V	C403	303 453 8016	CERAMIC	1U Z	6.3V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 373 5218	CERAMIC	1U Z	6.3V
	403 455 1012	CERAMIC	1U K	10V	C404	303 453 8016	CERAMIC	1U Z	6.3V
C331	303 433 1112	CERAMIC	1U K	10V		303 454 1313	CERAMIC	1U Z	6.3V
	403 461 3710	CERAMIC	0.1U Z	25V		303 373 5218	CERAMIC	1U Z	6.3V
	303 454 0514	CERAMIC	0.1U Z	25V	C4057	303 384 4712	TA-SOLID	47U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 449 1212	POS-SOLID	47U M	6.3V
C332	403 461 3710	CERAMIC	0.1U Z	25V	C406	303 453 8016	CERAMIC	1U Z	6.3V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V		303 373 5218	CERAMIC	1U Z	6.3V
	403 455 1012	CERAMIC	1U K	10V	C407	303 453 8016	CERAMIC	1U Z	6.3V
C336	303 433 1112	CERAMIC	1U K	10V		303 454 1313	CERAMIC	1U Z	6.3V
	303 347 5510	POS-SOLID	470U M	4V		303 373 5218	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V	C411	303 453 8016	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
C3501	303 391 5115	ELECT	100U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
	303 296 9515	ELECT	100U M	16V	C412	303 453 8016	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 391 5511	ELECT	10U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
C3504	303 175 7212	ELECT	10U M	16V	C413	303 453 8016	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 391 5511	ELECT	10U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
	303 175 7212	ELECT	10U M	16V	C414	303 453 8016	CERAMIC	1U Z	6.3V
C3506	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V		303 373 5218	CERAMIC	1U Z	6.3V
	303 391 5115	ELECT	100U M	16V	C416	303 453 8016	CERAMIC	1U Z	6.3V
	303 296 9515	ELECT	100U M	16V		303 454 1313	CERAMIC	1U Z	6.3V
C3509	303 396 9613	CERAMIC	1U K	25V		303 373 5218	CERAMIC	1U Z	6.3V
	303 391 5115	ELECT	100U M	16V	C417	303 453 8016	CERAMIC	1U Z	6.3V
	303 296 9515	ELECT	100U M	16V		303 454 1313	CERAMIC	1U Z	6.3V
	303 398 3817	ELECT	220U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
C3531	303 396 9613	CERAMIC	1U K	25V	C421	303 453 8016	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 391 5115	ELECT	100U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
	303 296 9515	ELECT	100U M	16V	C422	303 453 8016	CERAMIC	1U Z	6.3V
C3533	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
	303 391 5115	ELECT	100U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
	303 296 9515	ELECT	100U M	16V	C423	303 453 8016	CERAMIC	1U Z	6.3V
	303 396 9613	CERAMIC	1U K	25V					
C3534	303 391 5511	ELECT	10U M	16V					
	303 175 7212	ELECT	10U M	16V					
	303 396 9613	CERAMIC	1U K	25V					
	303 391 5511	ELECT	10U M	16V					
C3535	303 175 7212	ELECT	10U M	16V					
	303 396 9613	CERAMIC	1U K	25V					
	303 341 3918	POS-SOLID	100U M	6.3V					
	303 396 9613	CERAMIC	1U K	25V					
C3555	303 396 9613	CERAMIC	1U K	25V					
	303 396 9613	CERAMIC	1U K	25V					
	303 391 5115	ELECT	100U M	16V					
	303 296 9515	ELECT	100U M	16V					
C3563	303 396 9613	CERAMIC	1U K	25V					
	303 391 5115	ELECT	100U M	16V					
	303 296 9515	ELECT	100U M	16V					
	303 396 9613	CERAMIC	1U K	25V					
C3564	303 391 5511	ELECT	10U M	16V					
	303 175 7212	ELECT	10U M	16V					
	303 396 9613	CERAMIC	1U K	25V					
	303 391 5511	ELECT	10U M	16V					
C3566	303 175 7212	ELECT	10U M	16V					
	303 396 9613	CERAMIC	1U K	25V					
	303 391 5511	ELECT	10U M	16V					
	303 175 7212	ELECT	10U M	16V					
C3571	303 396 9613	CERAMIC	1U K	25V					
	303 391 5511	ELECT	10U M	16V					
	303 175 7212	ELECT	10U M	16V					
	303 394 1312	ELECT	100U M	6.3V					
C3581	303 387 4917	ELECT	100U M	6.3V					

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C424	303 454 1313	CERAMIC	1U Z	6.3V	C5012	303 453 8917	CERAMIC	0.1U K	16V
	303 373 5218	CERAMIC	1U Z	6.3V		303 453 8610	CERAMIC	0.1U K	16V
	303 453 8016	CERAMIC	1U Z	6.3V	C5013	303 454 1412	CERAMIC	1U Z	10V
C426	303 454 1313	CERAMIC	1U Z	6.3V		303 442 2018	CERAMIC	1U Z	10V
	303 373 5218	CERAMIC	1U Z	6.3V	C5014	303 454 1412	CERAMIC	1U Z	10V
	303 453 8016	CERAMIC	1U Z	6.3V		303 442 2018	CERAMIC	1U Z	10V
C427	303 454 1313	CERAMIC	1U Z	6.3V	C5016	303 071 8115	CERAMIC	2200P K	50V
	303 373 5218	CERAMIC	1U Z	6.3V	C5017	303 453 8917	CERAMIC	0.1U K	16V
	303 453 8016	CERAMIC	1U Z	6.3V		303 453 8610	CERAMIC	0.1U K	16V
C431	303 454 1313	CERAMIC	1U Z	6.3V	C5018	303 279 4315	CERAMIC	0.33U K	16V
	303 373 5218	CERAMIC	1U Z	6.3V	C5019	403 455 1012	CERAMIC	1U K	10V
	303 453 8016	CERAMIC	1U Z	6.3V		303 433 1112	CERAMIC	1U K	10V
C432	303 454 1313	CERAMIC	1U Z	6.3V	C502	303 453 8016	CERAMIC	1U Z	6.3V
	303 373 5218	CERAMIC	1U Z	6.3V		303 454 1313	CERAMIC	1U Z	6.3V
	303 453 8016	CERAMIC	1U Z	6.3V		303 373 5218	CERAMIC	1U Z	6.3V
C433	303 454 1313	CERAMIC	1U Z	6.3V	C5021	403 455 1012	CERAMIC	1U K	10V
	303 373 5218	CERAMIC	1U Z	6.3V		303 433 1112	CERAMIC	1U K	10V
	303 453 8016	CERAMIC	1U Z	6.3V	C5022	403 455 1012	CERAMIC	1U K	10V
C434	303 454 1313	CERAMIC	1U Z	6.3V		303 433 1112	CERAMIC	1U K	10V
	303 373 5218	CERAMIC	1U Z	6.3V	C5023	303 454 1412	CERAMIC	1U Z	10V
	303 453 8016	CERAMIC	1U Z	6.3V		303 442 2018	CERAMIC	1U Z	10V
C436	303 454 1313	CERAMIC	1U Z	6.3V	C5024	303 379 6714	CERAMIC	10U K	16V
	303 373 5218	CERAMIC	1U Z	6.3V	C5025	303 391 5511	ELECT	10U M	16V
	303 453 8016	CERAMIC	1U Z	6.3V		303 175 7212	ELECT	10U M	16V
C437	303 454 1313	CERAMIC	1U Z	6.3V	C5026	303 391 5511	ELECT	10U M	16V
	303 373 5218	CERAMIC	1U Z	6.3V		303 175 7212	ELECT	10U M	16V
	303 453 8016	CERAMIC	1U Z	6.3V	C5027	303 391 5511	ELECT	10U M	16V
C438	303 454 1313	CERAMIC	1U Z	6.3V		303 175 7212	ELECT	10U M	16V
	303 373 5218	CERAMIC	1U Z	6.3V	C5028	303 391 5511	ELECT	10U M	16V
	303 384 4712	TA-SOLID	47U M	6.3V		303 175 7212	ELECT	10U M	16V
C439	303 449 1212	POS-SOLID	47U M	6.3V	C503	303 453 8016	CERAMIC	1U Z	6.3V
	303 453 8016	CERAMIC	1U Z	6.3V		303 454 1313	CERAMIC	1U Z	6.3V
	303 454 1313	CERAMIC	1U Z	6.3V		303 373 5218	CERAMIC	1U Z	6.3V
C471	303 373 5218	CERAMIC	1U Z	6.3V	C5031	303 323 8818	CERAMIC	2.2U Z	16V
	303 453 8016	CERAMIC	1U Z	6.3V	C5032	303 314 5918	CERAMIC	0.47U K	16V
	303 454 1313	CERAMIC	1U Z	6.3V	C5033	303 454 1412	CERAMIC	1U Z	10V
C479	303 373 5218	CERAMIC	1U Z	6.3V		303 442 2018	CERAMIC	1U Z	10V
	303 392 1215	ELECT	47U M	6.3V	C5037	303 454 1412	CERAMIC	1U Z	10V
	303 384 4712	TA-SOLID	47U M	6.3V		303 442 2018	CERAMIC	1U Z	10V
C4808	303 449 1212	POS-SOLID	47U M	6.3V	C5038	303 454 0613	CERAMIC	0.01U K	50V
	303 378 3110	CERAMIC	47U Z	6.3V	C5039	303 454 0613	CERAMIC	0.01U K	50V
	303 384 4712	TA-SOLID	47U M	6.3V	C504	303 453 8016	CERAMIC	1U Z	6.3V
C481	303 449 1212	POS-SOLID	47U M	6.3V		303 454 1313	CERAMIC	1U Z	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V		303 373 5218	CERAMIC	1U Z	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V	C5041	303 454 0613	CERAMIC	0.01U K	50V
C482	303 384 4712	TA-SOLID	47U M	6.3V	C505	303 396 9613	CERAMIC	1U K	25V
	303 449 1212	POS-SOLID	47U M	6.3V	C506	303 396 9613	CERAMIC	1U K	25V
	303 449 1212	POS-SOLID	47U M	6.3V	C5061	303 391 5511	ELECT	10U M	16V
C4891	303 453 8917	CERAMIC	0.1U K	16V		303 175 7212	ELECT	10U M	16V
	303 453 8610	CERAMIC	0.1U K	16V	C5069	303 391 5511	ELECT	10U M	16V
	303 453 8917	CERAMIC	0.1U K	16V		303 175 7212	ELECT	10U M	16V
C4892	303 453 8610	CERAMIC	0.1U K	16V	C507	303 396 9613	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V	C508	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C5081	303 379 6714	CERAMIC	10U K	16V
C5001	303 453 8917	CERAMIC	0.1U K	16V	C5083	303 394 1312	ELECT	100U M	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
	303 454 0613	CERAMIC	0.01U K	50V	C5084	403 461 3710	CERAMIC	0.1U Z	25V
C5002	303 454 0613	CERAMIC	0.01U K	50V		303 454 0514	CERAMIC	0.1U Z	25V
	303 454 0613	CERAMIC	0.01U K	50V		303 343 3718	CERAMIC	0.1U Z	25V
	303 453 8917	CERAMIC	0.1U K	16V	C5086	303 394 1312	ELECT	100U M	6.3V
C5003	303 453 8610	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
	303 453 8917	CERAMIC	0.1U K	16V	C5087	303 394 9318	ELECT	220U M	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 387 5112	ELECT	220U M	6.3V
C5004	303 453 8917	CERAMIC	0.1U K	16V	C5088	303 394 9318	ELECT	220U M	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 387 5112	ELECT	220U M	6.3V
	303 454 0613	CERAMIC	0.01U K	50V	C509	303 396 9613	CERAMIC	1U K	25V
C5006	303 454 0613	CERAMIC	0.01U K	50V	C510	303 396 9613	CERAMIC	1U K	25V
	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
C5007	303 454 0613	CERAMIC	0.01U K	50V					
	303 454 0613	CERAMIC	0.01U K	50V					
	303 453 8917	CERAMIC	0.1U K	16V					
C5008	303 453 8610	CERAMIC	0.1U K	16V					
	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
C5009	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
	303 454 0613	CERAMIC	0.01U K	50V					
C501	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
	303 454 0613	CERAMIC	0.01U K	50V					
C5011	303 453 8917	CERAMIC	0.1U K	16V					
	303 453 8610	CERAMIC	0.1U K	16V					
	303 454 0613	CERAMIC	0.01U K	50V					

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
C511	303 396 9613	CERAMIC	1U K	25V	C5318	303 453 8214	CERAMIC	10P J	50V
C512	303 396 9613	CERAMIC	1U K	25V		303 453 9013	CERAMIC	10P J	50V
C513	303 396 9613	CERAMIC	1U K	25V		303 279 6210	CERAMIC	10P J	50V
C514	303 396 9613	CERAMIC	1U K	25V	C532	303 453 8016	CERAMIC	1U Z	6.3V
C515	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
C516	303 453 8511	CERAMIC	1000P K	50V		303 373 5218	CERAMIC	1U Z	6.3V
	303 454 1214	CERAMIC	1000P K	50V	C533	303 453 8016	CERAMIC	1U Z	6.3V
C517	303 396 9613	CERAMIC	1U K	25V		303 454 1313	CERAMIC	1U Z	6.3V
C519	303 453 8016	CERAMIC	1U Z	6.3V		303 373 5218	CERAMIC	1U Z	6.3V
	303 454 1313	CERAMIC	1U Z	6.3V	C534	303 453 8016	CERAMIC	1U Z	6.3V
	303 373 5218	CERAMIC	1U Z	6.3V		303 454 1313	CERAMIC	1U Z	6.3V
C520	303 396 9613	CERAMIC	1U K	25V		303 373 5218	CERAMIC	1U Z	6.3V
C5201	303 323 8818	CERAMIC	2.2U Z	16V	C535	303 396 9613	CERAMIC	1U K	25V
C5202	303 323 8818	CERAMIC	2.2U Z	16V	C536	303 396 9613	CERAMIC	1U K	25V
C5203	303 323 8818	CERAMIC	2.2U Z	16V	C537	303 396 9613	CERAMIC	1U K	25V
C5204	303 323 8818	CERAMIC	2.2U Z	16V	C538	303 396 9613	CERAMIC	1U K	25V
C5206	403 455 1012	CERAMIC	1U K	10V	C539	303 396 9613	CERAMIC	1U K	25V
	303 433 1112	CERAMIC	1U K	10V	C540	303 396 9613	CERAMIC	1U K	25V
C5207	303 314 5918	CERAMIC	0.47U K	16V	C541	303 396 9613	CERAMIC	1U K	25V
C5208	303 323 8818	CERAMIC	2.2U Z	16V	C542	303 396 9613	CERAMIC	1U K	25V
C5209	303 323 8818	CERAMIC	2.2U Z	16V	C543	303 396 9613	CERAMIC	1U K	25V
C5212	303 453 8917	CERAMIC	0.1U K	16V	C544	303 396 9613	CERAMIC	1U K	25V
	303 453 8610	CERAMIC	0.1U K	16V	C545	303 396 9613	CERAMIC	1U K	25V
C5214	303 454 0613	CERAMIC	0.01U K	50V	C546	303 453 8511	CERAMIC	1000P K	50V
C5219	303 207 0310	CERAMIC	1U Z	16V		303 454 1214	CERAMIC	1000P K	50V
C5221	303 379 6714	CERAMIC	10U K	16V	C547	303 396 9613	CERAMIC	1U K	25V
C5222	403 455 1012	CERAMIC	1U K	10V	C549	303 453 8016	CERAMIC	1U Z	6.3V
	303 433 1112	CERAMIC	1U K	10V		303 454 1313	CERAMIC	1U Z	6.3V
C5223	303 394 9318	ELECT	220U M	6.3V		303 373 5218	CERAMIC	1U Z	6.3V
	303 387 5112	ELECT	220U M	6.3V	C550	303 396 9613	CERAMIC	1U K	25V
C524	303 391 5511	ELECT	10U M	16V	C554	303 391 5511	ELECT	10U M	16V
	303 175 7212	ELECT	10U M	16V		303 175 7212	ELECT	10U M	16V
C5241	403 461 3710	CERAMIC	0.1U Z	25V	C556	303 391 5115	ELECT	100U M	16V
	303 454 0514	CERAMIC	0.1U Z	25V		303 296 9515	ELECT	100U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C559	303 453 8016	CERAMIC	1U Z	6.3V
C526	303 391 5115	ELECT	100U M	16V		303 454 1313	CERAMIC	1U Z	6.3V
	303 296 9515	ELECT	100U M	16V		303 373 5218	CERAMIC	1U Z	6.3V
C529	303 453 8016	CERAMIC	1U Z	6.3V	C5600	303 398 1813	ELECT	220U M	6.3V
	303 454 1313	CERAMIC	1U Z	6.3V		303 224 3417	ELECT	220U M	6.3V
	303 373 5218	CERAMIC	1U Z	6.3V	C5601	303 394 9318	ELECT	220U M	6.3V
C5301	303 384 4712	TA-SOLID	47U M	6.3V		303 387 5112	ELECT	220U M	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V	C5602	403 461 3710	CERAMIC	0.1U Z	25V
C5302	403 455 1012	CERAMIC	1U K	10V		303 454 0514	CERAMIC	0.1U Z	25V
	303 433 1112	CERAMIC	1U K	10V		303 343 3718	CERAMIC	0.1U Z	25V
C5303	303 355 9913	CERAMIC	2.2U K	10V	C5603	303 394 9318	ELECT	220U M	6.3V
C5304	303 314 5918	CERAMIC	0.47U K	16V		303 387 5112	ELECT	220U M	6.3V
C5306	303 316 5411	CERAMIC	1U K	10V	C5604	403 461 3710	CERAMIC	0.1U Z	25V
C5307	303 314 5918	CERAMIC	0.47U K	16V		303 454 0514	CERAMIC	0.1U Z	25V
C5308	303 355 9913	CERAMIC	2.2U K	10V		303 343 3718	CERAMIC	0.1U Z	25V
C5309	403 455 1012	CERAMIC	1U K	10V	C5606	303 391 5115	ELECT	100U M	16V
	303 433 1112	CERAMIC	1U K	10V		303 296 9515	ELECT	100U M	16V
C531	303 453 8016	CERAMIC	1U Z	6.3V	C5607	303 391 5115	ELECT	100U M	16V
	303 454 1313	CERAMIC	1U Z	6.3V		303 296 9515	ELECT	100U M	16V
	303 373 5218	CERAMIC	1U Z	6.3V	C5608	303 394 9318	ELECT	220U M	6.3V
C5311	303 453 6319	CERAMIC	100P J	50V		303 387 5112	ELECT	220U M	6.3V
	303 454 0910	CERAMIC	100P J	50V	C5609	303 391 5115	ELECT	100U M	16V
	303 294 6110	CERAMIC	100P J	50V		303 296 9515	ELECT	100U M	16V
C5312	303 323 8818	CERAMIC	2.2U Z	16V	C561	303 453 8016	CERAMIC	1U Z	6.3V
C5313	303 384 4712	TA-SOLID	47U M	6.3V		303 454 1313	CERAMIC	1U Z	6.3V
	303 449 1212	POS-SOLID	47U M	6.3V		303 373 5218	CERAMIC	1U Z	6.3V
C5314	403 455 1012	CERAMIC	1U K	10V	C5612	303 398 1813	ELECT	220U M	6.3V
	303 433 1112	CERAMIC	1U K	10V		303 224 3417	ELECT	220U M	6.3V
C5315	303 454 1412	CERAMIC	1U Z	10V	C562	303 453 8016	CERAMIC	1U Z	6.3V
	303 442 2018	CERAMIC	1U Z	10V		303 454 1313	CERAMIC	1U Z	6.3V
C5316	303 207 0310	CERAMIC	1U Z	16V		303 373 5218	CERAMIC	1U Z	6.3V
C5317	403 455 1012	CERAMIC	1U K	10V	C5621	403 461 3710	CERAMIC	0.1U Z	25V
	303 433 1112	CERAMIC	1U K	10V		303 454 0514	CERAMIC	0.1U Z	25V

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Key No.	Part No.	Description			Key No.	Part No.	Description		
	303 343 3718	CERAMIC	0.1U Z	25V	C5693	303 453 8511	CERAMIC	1000P K	50V
C5622	303 394 1312	ELECT	100U M	6.3V		303 454 1214	CERAMIC	1000P K	50V
C5623	403 461 3710	CERAMIC	0.1U Z	25V	C570	303 396 9613	CERAMIC	1U K	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C5704	303 454 1016	CERAMIC	8200P K	50V
	303 343 3718	CERAMIC	0.1U Z	25V	C5705	303 347 5510	POS-SOLID	470U M	4V
C563	303 453 8016	CERAMIC	1U Z	6.3V	C571	303 396 9613	CERAMIC	1U K	25V
	303 454 1313	CERAMIC	1U Z	6.3V	C5711	303 453 8511	CERAMIC	1000P K	50V
	303 373 5218	CERAMIC	1U Z	6.3V		303 454 1214	CERAMIC	1000P K	50V
C564	303 453 8016	CERAMIC	1U Z	6.3V	C5712	303 453 7613	CERAMIC	0.01U Z	50V
	303 454 1313	CERAMIC	1U Z	6.3V		303 320 1317	CERAMIC	0.01U Z	50V
	303 373 5218	CERAMIC	1U Z	6.3V	C5713	303 384 4712	TA-SOLID	47U M	6.3V
C5641	303 391 5115	ELECT	100U M	16V		303 449 1212	POS-SOLID	47U M	6.3V
	303 296 9515	ELECT	100U M	16V	C5714	303 454 1412	CERAMIC	1U Z	10V
C5642	403 461 3710	CERAMIC	0.1U Z	25V		303 442 2018	CERAMIC	1U Z	10V
	303 454 0514	CERAMIC	0.1U Z	25V	C572	303 396 9613	CERAMIC	1U K	25V
	303 343 3718	CERAMIC	0.1U Z	25V	C573	303 396 9613	CERAMIC	1U K	25V
C5643	303 391 5115	ELECT	100U M	16V	C574	303 396 9613	CERAMIC	1U K	25V
	303 296 9515	ELECT	100U M	16V	C575	303 396 9613	CERAMIC	1U K	25V
C5644	303 374 8416	OS-SOLID	39U M	16V	C576	303 453 8511	CERAMIC	1000P K	50V
C565	303 396 9613	CERAMIC	1U K	25V		303 454 1214	CERAMIC	1000P K	50V
C5651	303 453 6913	CERAMIC	330P J	50V	C577	303 396 9613	CERAMIC	1U K	25V
	303 305 4715	CERAMIC	330P J	50V	C579	303 453 8016	CERAMIC	1U Z	6.3V
C5652	303 454 1016	CERAMIC	8200P K	50V		303 454 1313	CERAMIC	1U Z	6.3V
C5653	303 376 6311	CERAMIC	0.47U K	10V		303 373 5218	CERAMIC	1U Z	6.3V
C5654	403 461 3710	CERAMIC	0.1U Z	25V	C580	303 396 9613	CERAMIC	1U K	25V
	303 454 0514	CERAMIC	0.1U Z	25V	C584	303 391 5511	ELECT	10U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 175 7212	ELECT	10U M	16V
C5655	403 461 3710	CERAMIC	0.1U Z	25V	C586	303 391 5115	ELECT	100U M	16V
	303 454 0514	CERAMIC	0.1U Z	25V		303 296 9515	ELECT	100U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C589	303 453 8016	CERAMIC	1U Z	6.3V
C5656	303 453 8917	CERAMIC	0.1U K	16V		303 454 1313	CERAMIC	1U Z	6.3V
	303 453 8610	CERAMIC	0.1U K	16V		303 373 5218	CERAMIC	1U Z	6.3V
C5657	303 453 9310	CERAMIC	0.22U Z	16V	C7811	303 314 6212	CERAMIC	2.2U K	16V
	303 442 0212	CERAMIC	0.22U Z	16V	C7813	303 381 5316	ELECT	100U M	16V
C5658	303 454 1818	CERAMIC	2200P K	50V		303 369 3211	ELECT	100U M	16V
C5659	303 454 1917	CERAMIC	4700P K	50V	C7814	303 381 5316	ELECT	100U M	16V
C566	303 396 9613	CERAMIC	1U K	25V		303 369 3211	ELECT	100U M	16V
C5660	303 454 1917	CERAMIC	4700P K	50V	C7817	403 461 3710	CERAMIC	0.1U Z	25V
C5661	303 394 9318	ELECT	220U M	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 387 5112	ELECT	220U M	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
C5666	303 454 1016	CERAMIC	8200P K	50V	C7818	303 454 1917	CERAMIC	4700P K	50V
C5667	303 347 5510	POS-SOLID	470U M	4V	C7861	303 314 6212	CERAMIC	2.2U K	16V
C5669	403 461 3710	CERAMIC	0.1U Z	25V	C7863	303 381 5316	ELECT	100U M	16V
	303 454 0514	CERAMIC	0.1U Z	25V		303 369 3211	ELECT	100U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C7864	303 381 5316	ELECT	100U M	16V
C567	303 396 9613	CERAMIC	1U K	25V		303 369 3211	ELECT	100U M	16V
C5671	303 394 9318	ELECT	220U M	6.3V	C7867	403 461 3710	CERAMIC	0.1U Z	25V
	303 387 5112	ELECT	220U M	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
C5676	303 454 1016	CERAMIC	8200P K	50V		303 343 3718	CERAMIC	0.1U Z	25V
C568	303 396 9613	CERAMIC	1U K	25V	C7868	303 454 1917	CERAMIC	4700P K	50V
C5680	303 376 6311	CERAMIC	0.47U K	10V	C7871	303 381 5316	ELECT	100U M	16V
C5681	303 347 5510	POS-SOLID	470U M	4V	C7872	303 381 5316	ELECT	100U M	16V
C5682	403 461 3710	CERAMIC	0.1U Z	25V		303 369 3211	ELECT	100U M	16V
	303 454 0514	CERAMIC	0.1U Z	25V	C7873	303 381 5316	ELECT	100U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V		303 369 3211	ELECT	100U M	16V
C5684	403 461 3710	CERAMIC	0.1U Z	25V	C7874	303 381 5316	ELECT	100U M	16V
	303 454 0514	CERAMIC	0.1U Z	25V		303 369 3211	ELECT	100U M	16V
	303 343 3718	CERAMIC	0.1U Z	25V	C801	403 461 3710	CERAMIC	0.1U Z	25V
C5687	303 394 1312	ELECT	100U M	6.3V		303 454 0514	CERAMIC	0.1U Z	25V
	303 387 4917	ELECT	100U M	6.3V		303 343 3718	CERAMIC	0.1U Z	25V
C569	303 396 9613	CERAMIC	1U K	25V	C8203	303 439 8412	CERAMIC	2.2U M	6.3V
C5691	403 461 3710	CERAMIC	0.1U Z	25V	C8204	303 453 7217	CERAMIC	47P J	50V
	303 454 0514	CERAMIC	0.1U Z	25V		303 454 1610	CERAMIC	47P J	50V
	303 343 3718	CERAMIC	0.1U Z	25V		303 305 8812	CERAMIC	47P J	50V
C5692	403 461 3710	CERAMIC	0.1U Z	25V	C8206	303 398 3817	ELECT	220U M	16V
	303 454 0514	CERAMIC	0.1U Z	25V	C8213	303 439 8412	CERAMIC	2.2U M	6.3V
	303 343 3718	CERAMIC	0.1U Z	25V	C8214	303 453 7217	CERAMIC	47P J	50V

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	303 454 1610	CERAMIC 47P J 50V		303 454 0514	CERAMIC 0.1U Z 25V
	303 305 8812	CERAMIC 47P J 50V		303 343 3718	CERAMIC 0.1U Z 25V
C8216	303 398 3817	ELECT 220U M 16V	C848	303 454 0613	CERAMIC 0.01U K 50V
C8223	303 439 8412	CERAMIC 2.2U M 6.3V	C8811	303 453 7019	CERAMIC 33P J 50V
C8224	303 453 7217	CERAMIC 47P J 50V		303 453 9617	CERAMIC 33P J 50V
	303 454 1610	CERAMIC 47P J 50V		303 276 3113	CERAMIC 33P J 50V
	303 305 8812	CERAMIC 47P J 50V	C8812	303 453 7019	CERAMIC 33P J 50V
C8226	303 398 3817	ELECT 220U M 16V		303 453 9617	CERAMIC 33P J 50V
C8251	303 384 4712	TA-SOLID 47U M 6.3V		303 276 3113	CERAMIC 33P J 50V
	303 449 1212	POS-SOLID 47U M 6.3V	C8813	403 461 3710	CERAMIC 0.1U Z 25V
C8252	403 461 3710	CERAMIC 0.1U Z 25V		303 454 0514	CERAMIC 0.1U Z 25V
	303 454 0514	CERAMIC 0.1U Z 25V		303 343 3718	CERAMIC 0.1U Z 25V
	303 343 3718	CERAMIC 0.1U Z 25V	C8821	303 453 7019	CERAMIC 33P J 50V
C8253	403 461 3710	CERAMIC 0.1U Z 25V		303 453 9617	CERAMIC 33P J 50V
	303 454 0514	CERAMIC 0.1U Z 25V		303 276 3113	CERAMIC 33P J 50V
	303 343 3718	CERAMIC 0.1U Z 25V	C8822	303 453 7019	CERAMIC 33P J 50V
C8254	403 461 3710	CERAMIC 0.1U Z 25V		303 453 9617	CERAMIC 33P J 50V
	303 454 0514	CERAMIC 0.1U Z 25V		303 276 3113	CERAMIC 33P J 50V
	303 343 3718	CERAMIC 0.1U Z 25V	C8823	403 461 3710	CERAMIC 0.1U Z 25V
C8256	303 454 1115	CERAMIC 0.082U K 16V		303 454 0514	CERAMIC 0.1U Z 25V
C8257	303 454 0118	CERAMIC 6800P K 50V		303 343 3718	CERAMIC 0.1U Z 25V
	303 441 9919	CERAMIC 6800P K 50V	C8831	303 453 7019	CERAMIC 33P J 50V
C8259	403 461 3710	CERAMIC 0.1U Z 25V		303 453 9617	CERAMIC 33P J 50V
	303 454 0514	CERAMIC 0.1U Z 25V		303 276 3113	CERAMIC 33P J 50V
	303 343 3718	CERAMIC 0.1U Z 25V	C8832	303 453 7019	CERAMIC 33P J 50V
C8261	403 461 3710	CERAMIC 0.1U Z 25V		303 453 9617	CERAMIC 33P J 50V
	303 454 0514	CERAMIC 0.1U Z 25V		303 276 3113	CERAMIC 33P J 50V
	303 343 3718	CERAMIC 0.1U Z 25V	C8833	403 461 3710	CERAMIC 0.1U Z 25V
C8262	303 384 4712	TA-SOLID 47U M 6.3V		303 454 0514	CERAMIC 0.1U Z 25V
	303 449 1212	POS-SOLID 47U M 6.3V		303 343 3718	CERAMIC 0.1U Z 25V
C8263	403 461 3710	CERAMIC 0.1U Z 25V	C891	403 461 3710	CERAMIC 0.1U Z 25V
	303 454 0514	CERAMIC 0.1U Z 25V		303 454 0514	CERAMIC 0.1U Z 25V
	303 343 3718	CERAMIC 0.1U Z 25V		303 343 3718	CERAMIC 0.1U Z 25V
C8264	403 461 3710	CERAMIC 0.1U Z 25V	C9882	403 461 3710	CERAMIC 0.1U Z 25V
	303 454 0514	CERAMIC 0.1U Z 25V		303 454 0514	CERAMIC 0.1U Z 25V
	303 343 3718	CERAMIC 0.1U Z 25V		303 343 3718	CERAMIC 0.1U Z 25V
C8266	403 461 3710	CERAMIC 0.1U Z 25V	RESISTOR		
	303 454 0514	CERAMIC 0.1U Z 25V	R1001	301 260 4115	MT-GLAZE 75 JA 1/3W
	303 343 3718	CERAMIC 0.1U Z 25V	R1002	301 224 8814	MT-GLAZE 100 JA 1/16W
C8267	403 461 3710	CERAMIC 0.1U Z 25V	R101	301 225 8110	MT-GLAZE 10 JA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1011	301 260 4115	MT-GLAZE 75 JA 1/3W
	303 343 3718	CERAMIC 0.1U Z 25V	R1012	301 224 8814	MT-GLAZE 100 JA 1/16W
C8268	403 461 3710	CERAMIC 0.1U Z 25V	R1021	301 260 4115	MT-GLAZE 75 JA 1/3W
	303 454 0514	CERAMIC 0.1U Z 25V	R1022	301 224 8814	MT-GLAZE 100 JA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R103	301 224 9316	MT-GLAZE 1K JA 1/16W
C8269	403 461 3710	CERAMIC 0.1U Z 25V	R1031	301 225 1418	MT-GLAZE 47K JA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1032	301 224 8814	MT-GLAZE 100 JA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R1034	301 224 9316	MT-GLAZE 1K JA 1/16W
C8271	403 461 3710	CERAMIC 0.1U Z 25V	R1036	301 224 9316	MT-GLAZE 1K JA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1037	301 224 8814	MT-GLAZE 100 JA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R1038	301 224 8814	MT-GLAZE 100 JA 1/16W
C8272	403 461 3710	CERAMIC 0.1U Z 25V	R1041	301 225 1418	MT-GLAZE 47K JA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1042	301 224 8814	MT-GLAZE 100 JA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R1043	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C8273	403 461 3710	CERAMIC 0.1U Z 25V	R1044	301 224 9019	MT-GLAZE 10K JA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1045	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R1046	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C8274	403 461 3710	CERAMIC 0.1U Z 25V	R1047	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1048	301 224 8814	MT-GLAZE 100 JA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R1049	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
C8291	303 384 4712	TA-SOLID 47U M 6.3V	R1051	301 260 4214	MT-GLAZE 82 JA 1/3W
	303 449 1212	POS-SOLID 47U M 6.3V	R1052	301 263 7420	MT-GLAZE 75 JA 1/16W
C8292	403 461 3710	CERAMIC 0.1U Z 25V	R1053	301 225 7915	MT-GLAZE 220 JA 1/16W
	303 454 0514	CERAMIC 0.1U Z 25V	R1054	301 224 9316	MT-GLAZE 1K JA 1/16W
	303 343 3718	CERAMIC 0.1U Z 25V	R1055	301 225 1210	MT-GLAZE 4.7K JA 1/16W
C8293	303 372 8715	OS-SOLID 120U M 6.3V	R1056	301 224 8814	MT-GLAZE 100 JA 1/16W
C8294	403 461 3710	CERAMIC 0.1U Z 25V	R1057	301 225 1210	MT-GLAZE 4.7K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R106	301 225 1319	MT-GLAZE	470 JA 1/16W	R1869	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1061	301 260 4214	MT-GLAZE	82 JA 1/3W	R1871	301 224 9019	MT-GLAZE	10K JA 1/16W
R1062	301 263 7420	MT-GLAZE	75 JA 1/16W	R1880	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1063	301 225 7915	MT-GLAZE	220 JA 1/16W	R1881	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1064	301 224 9316	MT-GLAZE	1K JA 1/16W	R1886	301 224 8814	MT-GLAZE	100 JA 1/16W
R1066	301 224 8814	MT-GLAZE	100 JA 1/16W	R1888	301 224 8814	MT-GLAZE	100 JA 1/16W
R1067	301 224 9019	MT-GLAZE	10K JA 1/16W	R1891	301 224 9019	MT-GLAZE	10K JA 1/16W
R1068	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1892	301 259 7823	MT-GLAZE	20K JA 1/16W
R1071	301 260 4214	MT-GLAZE	82 JA 1/3W	R1893	301 224 9019	MT-GLAZE	10K JA 1/16W
R1072	301 263 7420	MT-GLAZE	75 JA 1/16W	R2002	301 224 8814	MT-GLAZE	100 JA 1/16W
R1073	301 225 7915	MT-GLAZE	220 JA 1/16W	R2003	301 224 9019	MT-GLAZE	10K JA 1/16W
R1074	301 224 9316	MT-GLAZE	1K JA 1/16W	R2004	301 224 9217	MT-GLAZE	15K JA 1/16W
R1076	301 224 8814	MT-GLAZE	100 JA 1/16W	R2006	301 035 4319	MT-GLAZE	10 JA 1/8W
R1081	301 225 1418	MT-GLAZE	47K JA 1/16W	R2012	301 278 0116	MT-GLAZE	62 JA 1/3W
R1082	301 224 8814	MT-GLAZE	100 JA 1/16W	R2013	301 225 1418	MT-GLAZE	47K JA 1/16W
R1084	301 224 9316	MT-GLAZE	1K JA 1/16W	R2016	301 224 9316	MT-GLAZE	1K JA 1/16W
R1091	301 225 1418	MT-GLAZE	47K JA 1/16W	R2018	301 225 1418	MT-GLAZE	47K JA 1/16W
R1092	301 224 8814	MT-GLAZE	100 JA 1/16W	R2019	301 227 2413	MT-GLAZE	15 JA 1/16W
R117	301 225 8110	MT-GLAZE	10 JA 1/16W	R2022	301 278 0116	MT-GLAZE	62 JA 1/3W
R119	301 225 8110	MT-GLAZE	10 JA 1/16W	R2023	301 225 1418	MT-GLAZE	47K JA 1/16W
R122	301 225 8110	MT-GLAZE	10 JA 1/16W	R2026	301 224 9316	MT-GLAZE	1K JA 1/16W
R1321	301 224 9316	MT-GLAZE	1K JA 1/16W	R2028	301 225 1418	MT-GLAZE	47K JA 1/16W
R1322	301 224 9316	MT-GLAZE	1K JA 1/16W	R2029	301 227 2413	MT-GLAZE	15 JA 1/16W
R1331	301 224 9415	MT-GLAZE	1M JA 1/16W	R2032	301 278 0116	MT-GLAZE	62 JA 1/3W
R137	945 049 0249	IMPEDANCE,120 OHM P		R2033	301 225 1418	MT-GLAZE	47K JA 1/16W
R138	301 225 8110	MT-GLAZE	10 JA 1/16W	R2034	301 234 9917	MT-GLAZE	6.8K JA 1/16W
R139	301 225 8110	MT-GLAZE	10 JA 1/16W	R2036	301 224 9316	MT-GLAZE	1K JA 1/16W
R141	301 224 9019	MT-GLAZE	10K JA 1/16W	R2038	301 225 1418	MT-GLAZE	47K JA 1/16W
R143	301 224 9019	MT-GLAZE	10K JA 1/16W	R2039	301 227 2413	MT-GLAZE	15 JA 1/16W
R1476	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2041	301 224 8913	MT-GLAZE	100K JA 1/16W
R1478	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2042	301 225 1418	MT-GLAZE	47K JA 1/16W
R1576	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2043	301 224 8814	MT-GLAZE	100 JA 1/16W
R1578	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R2051	301 224 8913	MT-GLAZE	100K JA 1/16W
R161	301 276 4710	MT-GLAZE	0.000 ZA 1/3W	R2052	301 225 1418	MT-GLAZE	47K JA 1/16W
R1805	301 224 9019	MT-GLAZE	10K JA 1/16W	R2053	301 224 8814	MT-GLAZE	100 JA 1/16W
R1806	301 224 9019	MT-GLAZE	10K JA 1/16W	R2501	945 044 9032	FILTER,EMI 2200PF	
R1807	301 224 9019	MT-GLAZE	10K JA 1/16W	R2502	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1808	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2521	301 224 8913	MT-GLAZE	100K JA 1/16W
R1810	301 224 9019	MT-GLAZE	10K JA 1/16W	R2531	945 044 9032	FILTER,EMI 2200PF	
R1811	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R2532	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1812	301 224 9415	MT-GLAZE	1M JA 1/16W	R2551	301 224 8913	MT-GLAZE	100K JA 1/16W
R1813	301 237 2915	MT-GLAZE	51 JA 1/16W	R2561	945 044 9032	FILTER,EMI 2200PF	
R1814	301 224 9019	MT-GLAZE	10K JA 1/16W	R2562	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1815	301 224 9019	MT-GLAZE	10K JA 1/16W	R2581	301 224 8913	MT-GLAZE	100K JA 1/16W
R1819	301 225 0213	MT-GLAZE	3.3K JA 1/16W	R2890	301 224 9712	MT-GLAZE	22 JA 1/16W
R1827	301 241 6619	MT-GLAZE	62K JA 1/16W	R2891	301 224 9712	MT-GLAZE	22 JA 1/16W
R1828	301 224 9019	MT-GLAZE	10K JA 1/16W	R2892	301 224 8814	MT-GLAZE	100 JA 1/16W
R1829	301 302 3410	MT-GLAZE	13K JA 1/16W	R300	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1830	301 224 9019	MT-GLAZE	10K JA 1/16W	R3001	301 224 8913	MT-GLAZE	100K JA 1/16W
R1831	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3002	301 224 8814	MT-GLAZE	100 JA 1/16W
R1832	301 224 9019	MT-GLAZE	10K JA 1/16W	R3003	301 225 1418	MT-GLAZE	47K JA 1/16W
R1833	301 224 8814	MT-GLAZE	100 JA 1/16W	R3011	301 224 8913	MT-GLAZE	100K JA 1/16W
R1834	301 224 9019	MT-GLAZE	10K JA 1/16W	R3012	301 224 8814	MT-GLAZE	100 JA 1/16W
R1838	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3013	301 225 1418	MT-GLAZE	47K JA 1/16W
R1841	301 224 9217	MT-GLAZE	15K JA 1/16W	R3051	301 224 8913	MT-GLAZE	100K JA 1/16W
R1842	301 224 9019	MT-GLAZE	10K JA 1/16W	R3052	301 224 8814	MT-GLAZE	100 JA 1/16W
R1848	301 225 1111	MT-GLAZE	27 JA 1/16W	R3053	301 224 8913	MT-GLAZE	100K JA 1/16W
R1849	301 225 1111	MT-GLAZE	27 JA 1/16W	R3054	301 224 8913	MT-GLAZE	100K JA 1/16W
R1851	301 224 9019	MT-GLAZE	10K JA 1/16W	R3056	301 224 9415	MT-GLAZE	1M JA 1/16W
R1855	301 224 9019	MT-GLAZE	10K JA 1/16W	R3057	301 224 9910	MT-GLAZE	22K JA 1/16W
R1861	301 224 9019	MT-GLAZE	10K JA 1/16W	R3061	301 224 8913	MT-GLAZE	100K JA 1/16W
R1862	301 224 9019	MT-GLAZE	10K JA 1/16W	R3062	301 224 8814	MT-GLAZE	100 JA 1/16W
R1863	301 224 9019	MT-GLAZE	10K JA 1/16W	R3073	301 225 8110	MT-GLAZE	10 JA 1/16W
R1864	301 224 9019	MT-GLAZE	10K JA 1/16W	R308	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1866	301 224 9019	MT-GLAZE	10K JA 1/16W	R3091	301 224 8814	MT-GLAZE	100 JA 1/16W
R1867	301 224 9019	MT-GLAZE	10K JA 1/16W	R3092	301 224 9316	MT-GLAZE	1K JA 1/16W
R1868	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R310	301 226 1516	MT-GLAZE	0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
R312	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4013	301 224 9316	MT-GLAZE	1K JA	1/16W
R314	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4014	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R321	301 224 9019	MT-GLAZE	10K JA	1/16W	R4016	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R322	301 225 2019	MT-GLAZE	680 JA	1/16W	R4017	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R323	301 225 8011	MT-GLAZE	330 JA	1/16W	R402	301 225 1814	MT-GLAZE	47 JA	1/16W
R327	301 224 9019	MT-GLAZE	10K JA	1/16W	R4021	301 225 8110	MT-GLAZE	10 JA	1/16W
R328	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4022	301 225 8110	MT-GLAZE	10 JA	1/16W
R329	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4023	301 224 9019	MT-GLAZE	10K JA	1/16W
R330	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4024	301 225 1418	MT-GLAZE	47K JA	1/16W
R331	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4032	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R332	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R404	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3501	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4071	301 224 8814	MT-GLAZE	100 JA	1/16W
R3502	301 225 1418	MT-GLAZE	47K JA	1/16W	R4072	301 224 8814	MT-GLAZE	100 JA	1/16W
R3503	301 224 8913	MT-GLAZE	100K JA	1/16W	R4073	301 224 9316	MT-GLAZE	1K JA	1/16W
R3505	301 225 3818	MT-GLAZE	1.5K JA	1/16W	R4074	301 224 9019	MT-GLAZE	10K JA	1/16W
R3507	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4076	301 224 9316	MT-GLAZE	1K JA	1/16W
R3509	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4077	301 224 8814	MT-GLAZE	100 JA	1/16W
R351	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R421	301 225 1814	MT-GLAZE	47 JA	1/16W
R3510	301 224 9019	MT-GLAZE	10K JA	1/16W	R422	301 225 1814	MT-GLAZE	47 JA	1/16W
R353	301 224 9019	MT-GLAZE	10K JA	1/16W	R424	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3531	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R437	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3532	301 225 1418	MT-GLAZE	47K JA	1/16W	R438	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3533	301 224 8913	MT-GLAZE	100K JA	1/16W	R439	301 224 8814	MT-GLAZE	100 JA	1/16W
R3535	945 044 9032	FILTER,EMI 2200PF			R441	301 225 1814	MT-GLAZE	47 JA	1/16W
R3538	301 224 8814	MT-GLAZE	100 JA	1/16W	R442	301 225 1814	MT-GLAZE	47 JA	1/16W
R3539	301 224 8814	MT-GLAZE	100 JA	1/16W	R444	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R354	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R472	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R355	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R479	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R356	301 224 9019	MT-GLAZE	10K JA	1/16W	R4834	301 224 9019	MT-GLAZE	10K JA	1/16W
R3561	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R484	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3562	301 225 1418	MT-GLAZE	47K JA	1/16W	R485	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3563	301 224 8913	MT-GLAZE	100K JA	1/16W	R486	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3571	301 037 5017	MT-GLAZE	0.000 ZA	1/10W	R4861	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R358	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R4862	301 038 5016	MT-GLAZE	390 JA	1/10W
R3581	301 224 9316	MT-GLAZE	1K JA	1/16W	R4863	301 225 1616	MT-GLAZE	390 JA	1/16W
R3582	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R4891	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3583	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R5001	301 276 4314	MT-GLAZE	4.7 JA	1/3W
R3584	301 225 3818	MT-GLAZE	1.5K JA	1/16W	R5002	301 224 9118	MT-GLAZE	150 JA	1/16W
R359	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R5003	301 224 9118	MT-GLAZE	150 JA	1/16W
R3601	301 224 9316	MT-GLAZE	1K JA	1/16W	R5004	301 224 8814	MT-GLAZE	100 JA	1/16W
R3602	301 225 0619	MT-GLAZE	5.6K JA	1/16W	R5006	301 224 8814	MT-GLAZE	100 JA	1/16W
R3621	301 224 9019	MT-GLAZE	10K JA	1/16W	R5007	301 224 8814	MT-GLAZE	100 JA	1/16W
R3622	301 224 9019	MT-GLAZE	10K JA	1/16W	R5008	301 224 8814	MT-GLAZE	100 JA	1/16W
R3623	301 224 9019	MT-GLAZE	10K JA	1/16W	R501	945 044 9032	FILTER,EMI 2200PF		
R3624	301 224 9019	MT-GLAZE	10K JA	1/16W	R5011	301 225 1418	MT-GLAZE	47K JA	1/16W
R3626	301 224 9019	MT-GLAZE	10K JA	1/16W	R5012	301 225 1418	MT-GLAZE	47K JA	1/16W
R3627	301 224 9019	MT-GLAZE	10K JA	1/16W	R5013	301 225 1418	MT-GLAZE	47K JA	1/16W
R367	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R5014	301 225 1418	MT-GLAZE	47K JA	1/16W
R370	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R5031	301 225 1319	MT-GLAZE	470 JA	1/16W
R371	301 224 9712	MT-GLAZE	22 JA	1/16W	R5032	301 225 1319	MT-GLAZE	470 JA	1/16W
R372	301 224 9712	MT-GLAZE	22 JA	1/16W	R5033	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R376	301 224 9712	MT-GLAZE	22 JA	1/16W	R5034	301 224 9316	MT-GLAZE	1K JA	1/16W
R3801	301 225 8110	MT-GLAZE	10 JA	1/16W	R5036	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R3802	301 225 8110	MT-GLAZE	10 JA	1/16W	R5037	301 224 9316	MT-GLAZE	1K JA	1/16W
R3804	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R5038	301 224 9019	MT-GLAZE	10K JA	1/16W
R3806	301 224 9019	MT-GLAZE	10K JA	1/16W	R5039	301 229 7218	MT-GLAZE	18K JA	1/16W
R381	301 224 9019	MT-GLAZE	10K JA	1/16W	R5041	301 224 9316	MT-GLAZE	1K JA	1/16W
R382	301 224 9019	MT-GLAZE	10K JA	1/16W	R5042	301 224 9316	MT-GLAZE	1K JA	1/16W
R383	301 224 9019	MT-GLAZE	10K JA	1/16W	R5043	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R384	301 224 9019	MT-GLAZE	10K JA	1/16W	R5044	301 224 9019	MT-GLAZE	10K JA	1/16W
R386	301 224 9019	MT-GLAZE	10K JA	1/16W	R5046	301 224 9019	MT-GLAZE	10K JA	1/16W
R389	301 224 9019	MT-GLAZE	10K JA	1/16W	R5047	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R397	301 225 8516	MT-GLAZE	1.8K JA	1/16W	R5048	301 224 9316	MT-GLAZE	1K JA	1/16W
R4001	301 224 9514	MT-GLAZE	2.2K JA	1/16W	R5051	301 224 9019	MT-GLAZE	10K JA	1/16W
R4002	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R5052	301 284 3613	MT-GLAZE	16K JA	1/16W
R401	301 225 1814	MT-GLAZE	47 JA	1/16W	R5053	301 224 9217	MT-GLAZE	15K JA	1/16W
R4011	301 224 9316	MT-GLAZE	1K JA	1/16W	R5056	301 226 1516	MT-GLAZE	0.000 ZA	1/16W

Electrical Parts List

Key No.	Part No.	Description		Key No.	Part No.	Description	
R5058	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5316	301 224 9316	MT-GLAZE	1K JA 1/16W
R506	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5319	301 224 8814	MT-GLAZE	100 JA 1/16W
R5061	301 224 9316	MT-GLAZE	1K JA 1/16W	R5321	301 224 9316	MT-GLAZE	1K JA 1/16W
R5062	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R536	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5063	301 224 9316	MT-GLAZE	1K JA 1/16W	R537	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5064	301 224 9316	MT-GLAZE	1K JA 1/16W	R540	301 294 3115	MT-GLAZE	1K FA 1/16W
R5066	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R541	301 225 8110	MT-GLAZE	10 JA 1/16W
R5067	301 224 9316	MT-GLAZE	1K JA 1/16W	R549	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5068	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R5601	301 190 1710	MT-GLAZE	0.000 ZA 1W
R5069	301 224 9316	MT-GLAZE	1K JA 1/16W	R561	945 044 9032	FILTER,EMI 2200PF	
R507	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5611	301 224 8814	MT-GLAZE	100 JA 1/16W
R5071	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R5622	301 218 8615	MT-GLAZE	5.6 JA 1W
R5081	301 224 9019	MT-GLAZE	10K JA 1/16W	R5623	301 190 1710	MT-GLAZE	0.000 ZA 1W
R5082	301 224 9316	MT-GLAZE	1K JA 1/16W	R5624	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R5083	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5625	301 198 7516	MT-GLAZE	15 JA 1W
R510	301 294 3115	MT-GLAZE	1K FA 1/16W	R5626	301 198 7516	MT-GLAZE	15 JA 1W
R511	301 225 8110	MT-GLAZE	10 JA 1/16W	R5641	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R519	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5642	301 259 2313	MT-GLAZE	200K JA 1/16W
R5201	301 224 8814	MT-GLAZE	100 JA 1/16W	R5643	301 261 1113	MT-GLAZE	24K JA 1/16W
R5202	301 224 8814	MT-GLAZE	100 JA 1/16W	R5650	301 259 7823	MT-GLAZE	20K JA 1/16W
R5203	301 224 8814	MT-GLAZE	100 JA 1/16W	R5651	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5204	301 224 9316	MT-GLAZE	1K JA 1/16W	R5652	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5208	301 224 9316	MT-GLAZE	1K JA 1/16W	R5653	301 241 6619	MT-GLAZE	62K JA 1/16W
R5209	301 224 9316	MT-GLAZE	1K JA 1/16W	R5654	301 225 1715	MT-GLAZE	39K JA 1/16W
R5212	301 224 9316	MT-GLAZE	1K JA 1/16W	R5655	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5213	301 224 8814	MT-GLAZE	100 JA 1/16W	R5656	301 241 6619	MT-GLAZE	62K JA 1/16W
R5216	301 224 8814	MT-GLAZE	100 JA 1/16W	R5657	301 225 1715	MT-GLAZE	39K JA 1/16W
R5218	301 224 8814	MT-GLAZE	100 JA 1/16W	R5658	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5219	301 227 2413	MT-GLAZE	15 JA 1/16W	R5659	301 261 2011	MT-GLAZE	9.1K JA 1/16W
R5226	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R566	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5227	301 224 9316	MT-GLAZE	1K JA 1/16W	R5661	301 237 2915	MT-GLAZE	51 JA 1/16W
R5228	301 227 2413	MT-GLAZE	15 JA 1/16W	R5662	301 225 8011	MT-GLAZE	330 JA 1/16W
R5233	301 227 2413	MT-GLAZE	15 JA 1/16W	R5663	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5238	301 276 4710	MT-GLAZE	0.000 ZA 1/3W	R5664	301 227 5612	MT-GLAZE	8.2K JA 1/16W
R5239	301 037 5116	MT-GLAZE	10 JA 1/10W	R5666	301 229 7218	MT-GLAZE	18K JA 1/16W
R5241	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	R567	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5242	301 224 8814	MT-GLAZE	100 JA 1/16W	R5671	301 237 2915	MT-GLAZE	51 JA 1/16W
R5243	301 224 9613	MT-GLAZE	2.7K JA 1/16W	R5672	301 225 8011	MT-GLAZE	330 JA 1/16W
R5244	301 261 1519	MT-GLAZE	4.3K JA 1/16W	R5673	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R5251	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5674	301 286 4717	MT-GLAZE	30K JA 1/16W
R5254	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5676	301 229 7218	MT-GLAZE	18K JA 1/16W
R5255	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5677	301 276 4710	MT-GLAZE	0.000 ZA 1/3W
R5261	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5678	301 225 0114	MT-GLAZE	27K JA 1/16W
R5262	301 225 1319	MT-GLAZE	470 JA 1/16W	R5679	301 276 4710	MT-GLAZE	0.000 ZA 1/3W
R5264	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5680	301 276 4710	MT-GLAZE	0.000 ZA 1/3W
R5265	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5681	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5266	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	R5682	301 229 7218	MT-GLAZE	18K JA 1/16W
R5271	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R5683	301 261 1113	MT-GLAZE	24K JA 1/16W
R5274	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R5684	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5275	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5691	301 224 9316	MT-GLAZE	1K JA 1/16W
R5281	301 224 9019	MT-GLAZE	10K JA 1/16W	R5692	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R5282	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5693	301 225 9018	MT-GLAZE	470K JA 1/16W
R5283	301 225 1319	MT-GLAZE	470 JA 1/16W	R5694	301 235 0012	MT-GLAZE	7.5K JA 1/16W
R5284	301 225 1319	MT-GLAZE	470 JA 1/16W	R5695	301 259 7823	MT-GLAZE	20K JA 1/16W
R5286	301 225 1319	MT-GLAZE	470 JA 1/16W	R5697	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5287	301 225 1319	MT-GLAZE	470 JA 1/16W	R5698	301 224 9316	MT-GLAZE	1K JA 1/16W
R5288	301 224 9019	MT-GLAZE	10K JA 1/16W	R5699	301 287 2029	MT-GLAZE	100K FA 1/16W
R5289	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R570	301 294 3115	MT-GLAZE	1K FA 1/16W
R5293	301 225 1418	MT-GLAZE	47K JA 1/16W	R5701	301 328 3913	MT-GLAZE	36K FA 1/16W
R5301	301 035 4111	MT-GLAZE	0.000 ZA 1/8W	R5702	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R5303	301 224 8814	MT-GLAZE	100 JA 1/16W	R571	301 225 8110	MT-GLAZE	10 JA 1/16W
R5304	301 224 9415	MT-GLAZE	1M JA 1/16W	R5713	301 224 9316	MT-GLAZE	1K JA 1/16W
R5306	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R5715	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R531	945 044 9032	FILTER,EMI 2200PF		R579	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5312	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R590	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5313	301 224 9019	MT-GLAZE	10K JA 1/16W	R591	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R5314	301 225 8615	MT-GLAZE	560K JA 1/16W	R592	301 226 1516	MT-GLAZE	0.000 ZA 1/16W

Electrical Parts List

Key No.	Part No.	Description			Key No.	Part No.	Description		
R6803	301 224 9019	MT-GLAZE	10K JA	1/16W	R8211	301 225 1913	MT-GLAZE	68 JA	1/16W
R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R8212	301 235 2115	MT-GLAZE	82 JA	1/16W
R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R8221	301 225 1913	MT-GLAZE	68 JA	1/16W
R6813	301 224 9019	MT-GLAZE	10K JA	1/16W	R8222	301 235 2115	MT-GLAZE	82 JA	1/16W
R6822	301 225 0213	MT-GLAZE	3.3K JA	1/16W	R8250	301 224 9019	MT-GLAZE	10K JA	1/16W
R6823	301 224 9019	MT-GLAZE	10K JA	1/16W	R8251	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R6831	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8254	301 225 8110	MT-GLAZE	10 JA	1/16W
R6832	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8256	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R6836	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8257	301 225 8110	MT-GLAZE	10 JA	1/16W
R6837	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8258	301 225 8110	MT-GLAZE	10 JA	1/16W
R6838	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8261	301 224 9019	MT-GLAZE	10K JA	1/16W
R6839	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8262	301 224 8814	MT-GLAZE	100 JA	1/16W
R6841	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8263	301 224 8814	MT-GLAZE	100 JA	1/16W
R6842	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8291	301 276 4710	MT-GLAZE	0.000 ZA	1/3W
R6843	301 225 8011	MT-GLAZE	330 JA	1/16W	R839	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6846	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R842	301 224 9019	MT-GLAZE	10K JA	1/16W
R6847	301 225 8011	MT-GLAZE	330 JA	1/16W	R844	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6848	301 225 2019	MT-GLAZE	680 JA	1/16W	R857	301 224 9316	MT-GLAZE	1K JA	1/16W
R6849	301 225 2019	MT-GLAZE	680 JA	1/16W	R868	301 224 9316	MT-GLAZE	1K JA	1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R869	301 224 9316	MT-GLAZE	1K JA	1/16W
R6853	301 225 1319	MT-GLAZE	470 JA	1/16W	R871	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6854	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R872	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6857	301 225 1616	MT-GLAZE	390 JA	1/16W	R8811	301 225 8110	MT-GLAZE	10 JA	1/16W
R6858	301 225 1616	MT-GLAZE	390 JA	1/16W	R8812	301 225 8110	MT-GLAZE	10 JA	1/16W
R6859	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R8813	301 224 9019	MT-GLAZE	10K JA	1/16W
R699	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R8821	301 225 8110	MT-GLAZE	10 JA	1/16W
R7801	301 224 9019	MT-GLAZE	10K JA	1/16W	R8822	301 225 8110	MT-GLAZE	10 JA	1/16W
R7802	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R8823	301 224 9019	MT-GLAZE	10K JA	1/16W
R7803	301 224 9019	MT-GLAZE	10K JA	1/16W	R8824	301 224 9019	MT-GLAZE	10K JA	1/16W
R7811	301 224 9019	MT-GLAZE	10K JA	1/16W	R8831	301 225 8110	MT-GLAZE	10 JA	1/16W
R7812	301 225 1210	MT-GLAZE	4.7K JA	1/16W	R8832	301 225 8110	MT-GLAZE	10 JA	1/16W
R7813	301 224 9415	MT-GLAZE	1M JA	1/16W	R8833	301 224 9019	MT-GLAZE	10K JA	1/16W
R7816	301 237 2915	MT-GLAZE	51 JA	1/16W	R893	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7818	301 276 3010	MT-GLAZE	75K JA	1/16W	R894	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7819	301 224 8913	MT-GLAZE	100K JA	1/16W	R896	301 226 2414	MT-GLAZE	560 JA	1/16W
R7821	301 225 0114	MT-GLAZE	27K JA	1/16W	R897	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7824	301 225 8516	MT-GLAZE	1.8K JA	1/16W	R898	301 224 8814	MT-GLAZE	100 JA	1/16W
R7828	301 224 9019	MT-GLAZE	10K JA	1/16W	R9822	301 225 8110	MT-GLAZE	10 JA	1/16W
R7829	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	R9823	301 225 8110	MT-GLAZE	10 JA	1/16W
R7831	301 224 9316	MT-GLAZE	1K JA	1/16W	R9882	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7832	301 227 5612	MT-GLAZE	8.2K JA	1/16W	RB101	945 034 5051	R-NETWORK 22X4	1/32W	
R7833	301 224 9613	MT-GLAZE	2.7K JA	1/16W		945 037 0824	R-NETWORK 22X4	1/16W	
R7861	301 224 9019	MT-GLAZE	10K JA	1/16W	RB102	945 034 5051	R-NETWORK 22X4	1/32W	
R7862	301 225 1210	MT-GLAZE	4.7K JA	1/16W		945 037 0824	R-NETWORK 22X4	1/16W	
R7863	301 224 9415	MT-GLAZE	1M JA	1/16W	RB103	945 034 5051	R-NETWORK 22X4	1/32W	
R7866	301 237 2915	MT-GLAZE	51 JA	1/16W		945 037 0824	R-NETWORK 22X4	1/16W	
R7868	301 276 3010	MT-GLAZE	75K JA	1/16W	RB104	945 034 5051	R-NETWORK 22X4	1/32W	
R7869	301 224 8913	MT-GLAZE	100K JA	1/16W		945 037 0824	R-NETWORK 22X4	1/16W	
R7871	301 225 0114	MT-GLAZE	27K JA	1/16W	RB2501	945 028 0697	R-NETWORK 100X4	1/16W	
R7874	301 225 8516	MT-GLAZE	1.8K JA	1/16W	RB2531	945 028 0697	R-NETWORK 100X4	1/16W	
R7875	945 044 9032	FILTER,EMI 2200PF			RB2561	945 028 0697	R-NETWORK 100X4	1/16W	
R7876	945 044 9032	FILTER,EMI 2200PF			RB401	945 037 0831	R-NETWORK 47X4	1/16W	
R7878	301 224 9019	MT-GLAZE	10K JA	1/16W	RB402	945 037 0831	R-NETWORK 47X4	1/16W	
R7879	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	RB403	945 037 0831	R-NETWORK 47X4	1/16W	
R7881	301 224 9316	MT-GLAZE	1K JA	1/16W	RB404	945 037 0831	R-NETWORK 47X4	1/16W	
R7882	301 224 9019	MT-GLAZE	10K JA	1/16W	RB406	945 037 0831	R-NETWORK 47X4	1/16W	
R7883	301 224 9613	MT-GLAZE	2.7K JA	1/16W	RB421	945 037 0831	R-NETWORK 47X4	1/16W	
R801	301 224 9019	MT-GLAZE	10K JA	1/16W	RB422	945 037 0831	R-NETWORK 47X4	1/16W	
R802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	RB423	945 037 0831	R-NETWORK 47X4	1/16W	
R803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	RB424	945 037 0831	R-NETWORK 47X4	1/16W	
R804	301 224 9019	MT-GLAZE	10K JA	1/16W	RB426	945 037 0831	R-NETWORK 47X4	1/16W	
R806	301 226 1516	MT-GLAZE	0.000 ZA	1/16W	RB441	945 037 0831	R-NETWORK 47X4	1/16W	
R807	301 224 9019	MT-GLAZE	10K JA	1/16W	RB442	945 037 0831	R-NETWORK 47X4	1/16W	
R808	301 224 9019	MT-GLAZE	10K JA	1/16W	RB443	945 037 0831	R-NETWORK 47X4	1/16W	
R812	301 224 9019	MT-GLAZE	10K JA	1/16W	RB444	945 037 0831	R-NETWORK 47X4	1/16W	
R8201	301 225 1913	MT-GLAZE	68 JA	1/16W	RB446	945 037 0831	R-NETWORK 47X4	1/16W	
R8202	301 235 2115	MT-GLAZE	82 JA	1/16W	RB480	945 028 0697	R-NETWORK 100X4	1/16W	

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RB481	945 037 0831	R-NETWORK 47X4 1/16W	L2532	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB482	945 037 0817	R-NETWORK 0X4 1/16W	L2561	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB483	945 037 0831	R-NETWORK 47X4 1/16W	L2562	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB484	945 037 0817	R-NETWORK 0X4 1/16W	L3002	945 068 8325	FILTER,EMI 20MHZ
RB485	945 037 0831	R-NETWORK 47X4 1/16W	L301	301 150 6014	MT-GLAZE 0.000 ZA 1/10W
RB486	945 037 0817	R-NETWORK 0X4 1/16W	L3011	945 068 8325	FILTER,EMI 20MHZ
RB501	945 037 0817	R-NETWORK 0X4 1/16W	L302	945 050 8449	IMPEDANCE,1000 OHM P
RB502	945 037 0817	R-NETWORK 0X4 1/16W	L3051	945 068 8325	FILTER,EMI 20MHZ
RB503	945 037 0817	R-NETWORK 0X4 1/16W	L3061	945 068 8325	FILTER,EMI 20MHZ
RB531	945 037 0817	R-NETWORK 0X4 1/16W	L3081	945 068 8325	FILTER,EMI 20MHZ
RB532	945 037 0817	R-NETWORK 0X4 1/16W	L3082	945 068 8325	FILTER,EMI 20MHZ
RB533	945 037 0817	R-NETWORK 0X4 1/16W	L351	945 050 8449	IMPEDANCE,1000 OHM P
RB561	945 037 0817	R-NETWORK 0X4 1/16W	L3581	945 062 2824	INDUCTOR,3.3U M
RB562	945 037 0817	R-NETWORK 0X4 1/16W	L401	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB563	945 037 0817	R-NETWORK 0X4 1/16W	L402	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB8251	945 034 5051	R-NETWORK 22X4 1/32W	L501	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
	945 037 0824	R-NETWORK 22X4 1/16W	L5031	945 062 2824	INDUCTOR,3.3U M
RB8252	945 034 5051	R-NETWORK 22X4 1/32W	L5302	945 059 2264	INDUCTOR,4.7U M
	945 037 0824	R-NETWORK 22X4 1/16W	L531	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB8253	945 034 5051	R-NETWORK 22X4 1/32W	L5311	945 059 2264	INDUCTOR,4.7U M
	945 037 0824	R-NETWORK 22X4 1/16W	L5600	945 033 7940	INDUCTOR,33U M
RB8254	945 034 5051	R-NETWORK 22X4 1/32W	L5601	945 062 2855	INDUCTOR,33U M
	945 037 0824	R-NETWORK 22X4 1/16W	L5602	645 089 2677	FILTER,EMI 1500PF
RB8256	945 034 5051	R-NETWORK 22X4 1/32W	L5604	645 089 2677	FILTER,EMI 1500PF
	945 037 0824	R-NETWORK 22X4 1/16W	L5606	645 089 2677	FILTER,EMI 1500PF
RB8257	945 034 5051	R-NETWORK 22X4 1/32W	L5609	645 089 2677	FILTER,EMI 1500PF
	945 037 0824	R-NETWORK 22X4 1/16W	L561	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
RB8258	945 028 0697	R-NETWORK 100X4 1/16W	L5611	945 062 2855	INDUCTOR,33U M
RB8259	945 028 0697	R-NETWORK 100X4 1/16W	L5612	945 033 7940	INDUCTOR,33U M
RB8260	945 028 0697	R-NETWORK 100X4 1/16W	L5644	645 089 2677	FILTER,EMI 1500PF
TRANSFORMER			L5691	945 062 2855	INDUCTOR,33U M
T5601	305 139 7719	TR IMZ1A-T108	L7811	945 038 4579	INDUCTOR,33U M
T5611	305 139 7719	TR IMZ1A-T108		945 075 1012	INDUCTOR,33U M
COIL			L7861	945 038 4562	INDUCTOR,100U M
L1002	945 068 8349	FILTER,EMI 400MHZ	L7872	645 089 2677	FILTER,EMI 1500PF
L1012	945 068 8349	FILTER,EMI 400MHZ	L8251	301 035 4111	MT-GLAZE 0.000 ZA 1/8W
L1022	945 068 8349	FILTER,EMI 400MHZ	DIODE		
L1031	945 068 8332	FILTER,EMI 200MHZ	D1091	307 205 5216	DIODE RB521S-30-TE61
L1041	945 068 8332	FILTER,EMI 200MHZ	D1092	307 205 5216	DIODE RB521S-30-TE61
L105	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D2002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
L1051	945 068 8349	FILTER,EMI 400MHZ		307 209 1214	ZD UDZS-TE-176.2B
L106	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
L1061	945 068 8349	FILTER,EMI 400MHZ		307 209 1214	ZD UDZS-TE-176.2B
L107	945 059 2264	INDUCTOR,4.7U M	D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
L1071	945 068 8349	FILTER,EMI 400MHZ		307 209 1214	ZD UDZS-TE-176.2B
L108	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D3051	307 163 0414	DIODE 1SS352-(TPH3)
L1081	945 068 8332	FILTER,EMI 200MHZ		307 149 0810	DIODE 1SS355-TE-17
L109	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D3501	307 163 0414	DIODE 1SS352-(TPH3)
L1091	945 068 8332	FILTER,EMI 200MHZ		307 149 0810	DIODE 1SS355-TE-17
L1092	945 004 6644	INDUCTOR,220 OHM	D3601	307 163 0414	DIODE 1SS352-(TPH3)
L1801	945 062 2824	INDUCTOR,3.3U M		307 149 0810	DIODE 1SS355-TE-17
L1802	945 059 1748	INDUCTOR,2.2U J	D3606	307 163 0414	DIODE 1SS352-(TPH3)
L1803	301 037 5017	MT-GLAZE 0.000 ZA 1/10W		307 149 0810	DIODE 1SS355-TE-17
L1804	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D3608	307 163 0414	DIODE 1SS352-(TPH3)
L2001	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L2011	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D3611	307 163 0414	DIODE 1SS352-(TPH3)
L2012	945 068 8318	FILTER,EMI 100MHZ		307 149 0810	DIODE 1SS355-TE-17
L2021	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D3612	307 163 0414	DIODE 1SS352-(TPH3)
L2022	945 068 8318	FILTER,EMI 100MHZ		307 149 0810	DIODE 1SS355-TE-17
L2031	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	D3613	307 163 0414	DIODE 1SS352-(TPH3)
L2032	945 068 8318	FILTER,EMI 100MHZ		307 149 0810	DIODE 1SS355-TE-17
L2041	945 068 8325	FILTER,EMI 20MHZ	D3614	307 163 0414	DIODE 1SS352-(TPH3)
L2051	945 068 8325	FILTER,EMI 20MHZ		307 149 0810	DIODE 1SS355-TE-17
L2501	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D3617	307 163 0414	DIODE 1SS352-(TPH3)
L2502	301 037 5017	MT-GLAZE 0.000 ZA 1/10W		307 149 0810	DIODE 1SS355-TE-17
L2531	301 037 5017	MT-GLAZE 0.000 ZA 1/10W	D3618	307 163 0414	DIODE 1SS352-(TPH3)
				307 149 0810	DIODE 1SS355-TE-17

Electrical Parts List

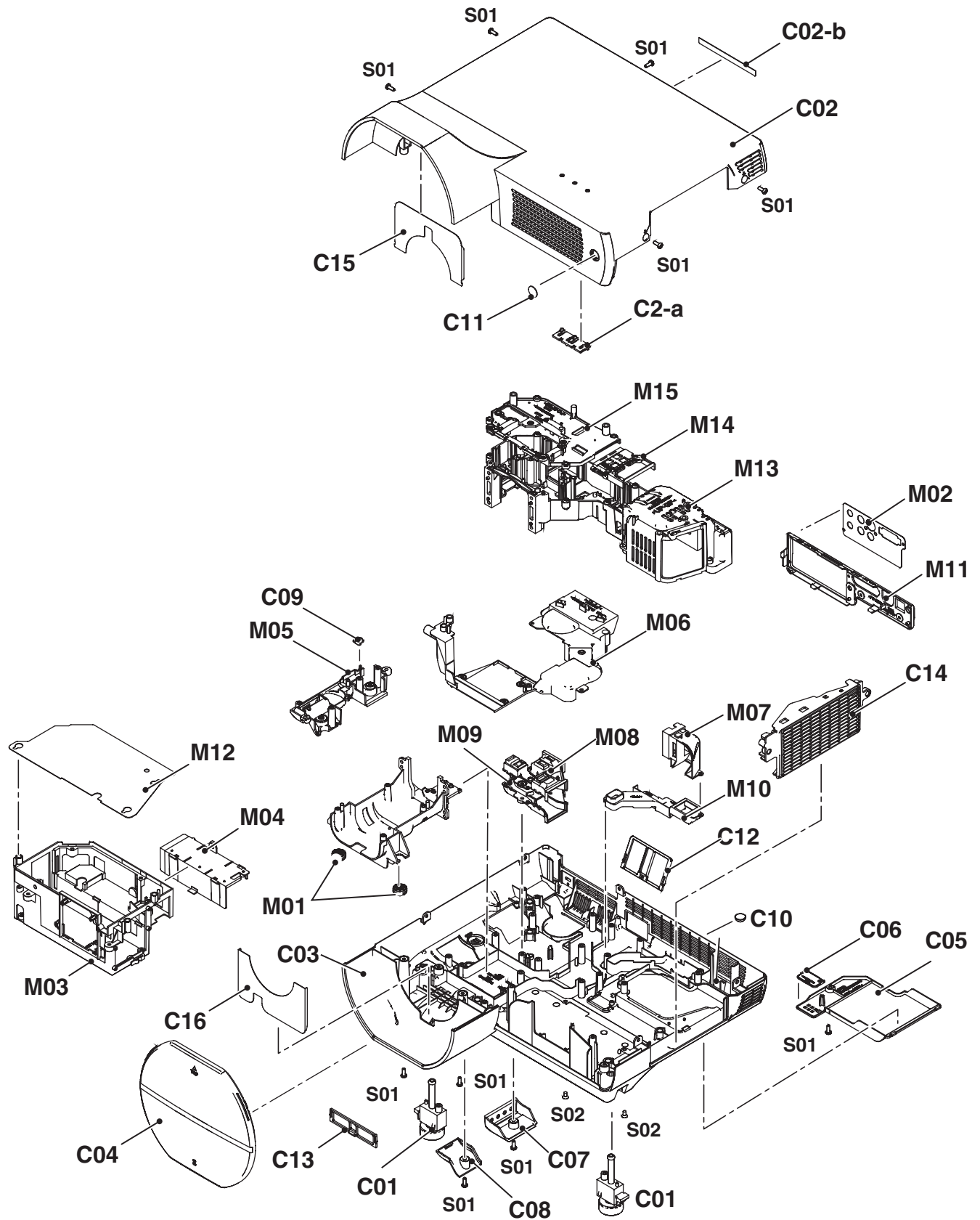
Key No.	Part No.	Description	Key No.	Part No.	Description
D3619	307 163 0414	DIODE 1SS352-(TPH3)	K10B	952 001 8571	SOCKET,D-SUB 15P
	307 149 0810	DIODE 1SS355-TE-17	K20A	952 001 9585	JACK,RCA-2
D3620	307 163 0414	DIODE 1SS352-(TPH3)	K20B	952 001 7932	TERMINAL, BOARD
	307 149 0810	DIODE 1SS355-TE-17	K30B	945 076 2742	JACK,PHON D3.6
D3621	307 163 0414	DIODE 1SS352-(TPH3)		652 002 1808	JACK,PHONE D3.6
	307 149 0810	DIODE 1SS355-TE-17		652 002 4847	JACK,PHONE D3.6
D3622	307 163 0414	DIODE 1SS352-(TPH3)	K40A	645 095 2647	SOCKET,USB 4P
	307 149 0810	DIODE 1SS355-TE-17	K40B	952 001 8427	SOCKET,DIN 8P
D3623	307 163 0414	DIODE 1SS352-(TPH3)	SC1031	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC1041	945 076 3503	SURGE-ABSORBER
D3624	307 163 0414	DIODE 1SS352-(TPH3)	SC1081	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC1091	945 076 3503	SURGE-ABSORBER
D3626	307 163 0414	DIODE 1SS352-(TPH3)	SC2001	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC2011	945 076 3503	SURGE-ABSORBER
D3627	307 163 0414	DIODE 1SS352-(TPH3)	SC2021	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC2031	945 076 3503	SURGE-ABSORBER
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	SC2041	945 076 3503	SURGE-ABSORBER
	307 209 1214	ZD UDZS-TE-176.2B	SC2051	945 076 3503	SURGE-ABSORBER
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	SC3001	945 076 3503	SURGE-ABSORBER
	307 209 1214	ZD UDZS-TE-176.2B	SC3011	945 076 3503	SURGE-ABSORBER
D5061	307 163 0414	DIODE 1SS352-(TPH3)	SC303	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC304	945 076 3503	SURGE-ABSORBER
D5062	307 163 0414	DIODE 1SS352-(TPH3)	SC3051	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC306	945 076 3503	SURGE-ABSORBER
D5601	307 201 2724	DIODE RB051L-40-TE25	SC3061	945 076 3503	SURGE-ABSORBER
D5602	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	SC307	945 076 3503	SURGE-ABSORBER
	307 209 4512	ZD UDZS-TE-176.8B	SC3071	945 076 3503	SURGE-ABSORBER
D5611	307 201 2724	DIODE RB051L-40-TE25	SC3072	945 076 3503	SURGE-ABSORBER
D5612	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	SC3073	945 076 3503	SURGE-ABSORBER
	307 209 4512	ZD UDZS-TE-176.8B	SC308	945 076 3503	SURGE-ABSORBER
D5622	307 163 0414	DIODE 1SS352-(TPH3)	SC3081	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC3082	945 076 3503	SURGE-ABSORBER
D5623	307 163 0414	DIODE 1SS352-(TPH3)	SC309	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC3091	945 076 3503	SURGE-ABSORBER
D5624	307 163 0414	DIODE 1SS352-(TPH3)	SC311	945 076 3503	SURGE-ABSORBER
	307 149 0810	DIODE 1SS355-TE-17	SC313	945 076 3503	SURGE-ABSORBER
D5631	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	SC5601	945 076 3503	SURGE-ABSORBER
	307 209 4512	ZD UDZS-TE-176.8B	SC5602	945 076 3503	SURGE-ABSORBER
D5691	307 201 2724	DIODE RB051L-40-TE25	SC5603	945 076 3503	SURGE-ABSORBER
D5694	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	SC5607	945 076 3503	SURGE-ABSORBER
	307 209 4512	ZD UDZS-TE-176.8B	SC5608	945 076 3503	SURGE-ABSORBER
D6831	307 209 7414	LED SML-210YT-K-T86	SC5691	945 076 3503	SURGE-ABSORBER
	307 209 7513	LED SML-210YT T86 L	SW50A	945 035 6828	SWITCH,PUSH
D6832	307 203 7816	LED SML-210LT T86 M	X101	652 002 0085	OSC,CRYSTAL24.576000MHZ
D6833	307 222 4810	LED SML-521MUW T86	X1331	652 002 0061	OSC,CRYSTAL14.318180MHZ
D6841	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)	X1801	652 002 0078	OSC,CRYSTAL48.000000MHZ
	307 221 7119	ZENER DIODE UDZS-TE-1712B	ZD1041	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D6842	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)		307 221 7119	ZENER DIODE UDZS-TE-1712B
	307 221 7119	ZENER DIODE UDZS-TE-1712B	ZD1042	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D6843	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)		307 221 7119	ZENER DIODE UDZS-TE-1712B
	307 221 7119	ZENER DIODE UDZS-TE-1712B			
D6844	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)			
	307 221 7119	ZENER DIODE UDZS-TE-1712B			
D7812	307 201 2724	DIODE RB051L-40-TE25			
D7862	307 201 2724	DIODE RB051L-40-TE25			
MISCELLANEOUS			PACKING MATERIALS		
FB2881	945 041 1978	INDUCTOR,330 OHM	610 333 9559		SPACER LENS-LK6AC
FB2882	945 041 1978	INDUCTOR,330 OHM	610 339 1892		CARTON CASE-KJ7YC
FB2891	945 041 1978	INDUCTOR,330 OHM	610 332 2759		CUSHION SPACER-LK6AC
FB3621	945 041 1978	INDUCTOR,330 OHM	610 334 5666		CUSHION SPACER TOP-LK6AC
FB3622	945 041 1978	INDUCTOR,330 OHM	610 334 5765		CUSHION SPACER BTM-LK6AC
FB3623	945 041 1978	INDUCTOR,330 OHM	610 334 5758		CUSHION SPACER FB-LK6AC
FB3624	945 041 1978	INDUCTOR,330 OHM	610 334 5826		CUSHION SPACER LR-LK6AC
FB3626	945 041 1978	INDUCTOR,330 OHM	610 334 5734		CUSHION SPACER LNS SIDE-LK6AC
FB3627	945 041 1978	INDUCTOR,330 OHM	610 332 8386		LENS CAUTION CARD-LK6A
FB4801	945 041 1978	INDUCTOR,330 OHM	645 097 3987		POLY BAG-0550X0600*NC*R8P
K10A	952 001 8571	SOCKET,D-SUB 15P	655 002 0116		SPACER SHEET-LK6AC
			655 002 0109		SPACER SHEET-LK6AC

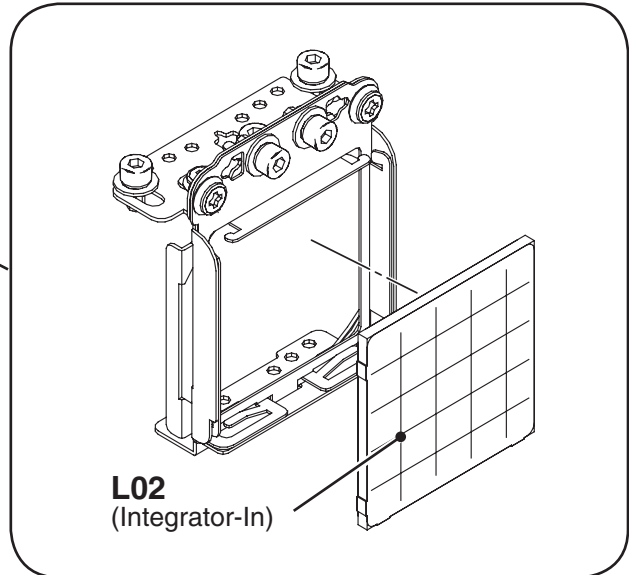
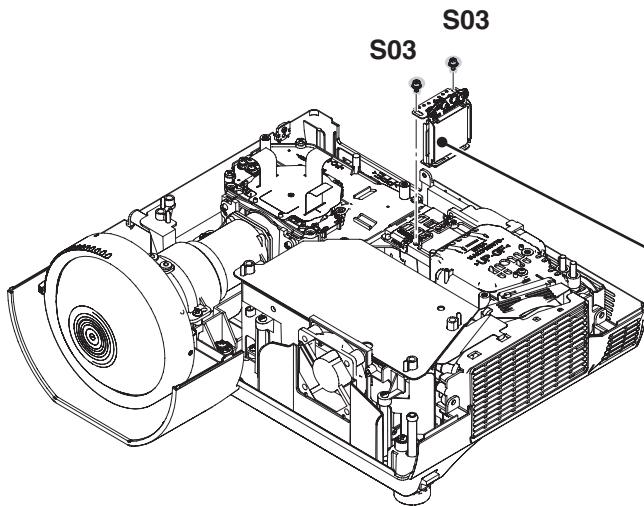
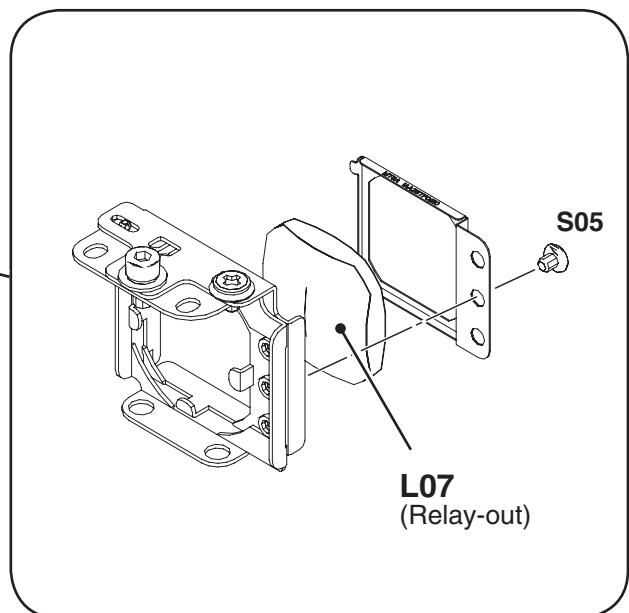
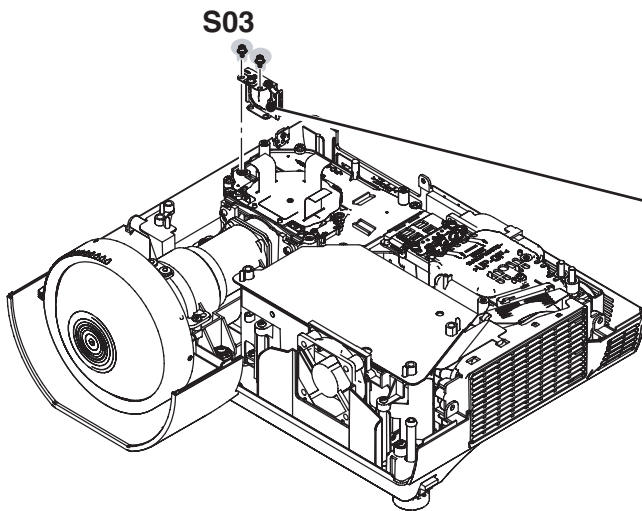
Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
ACCESSORIES					
OWNER'S MAUAL					
	610 339 2066	CD-ROM,OWNERS MANUAL-KJ7YC			
	610 339 1861	SETUP INST MANUAL-KJ7YC			
REMOTE CONTROL					
	645 096 9102	ASSY,REMOCON CXYZ			
	910 321 4482	RC-BATTERY LID-CXTJ			
⚠ AC CORD					
US	645 095 0568	CORD,POWER-4.4MK,US			
EU	945 054 1156	CORD,POWER-3.0MK			
UK	945 054 1149	CORD,POWER-3.138MK			
MISCELLANEOUS					
	610 332 3299	STRAP COMP-LK6AC			
	945 081 8722	BATTERY,LITHIUM			
	945 088 6837	BATTERY,LITHIUM			
	945 073 4855	CABLE,INTERFACE VGA			
	645 093 1642	CABLE,INTERFACE VGA			

Mechanical Parts List

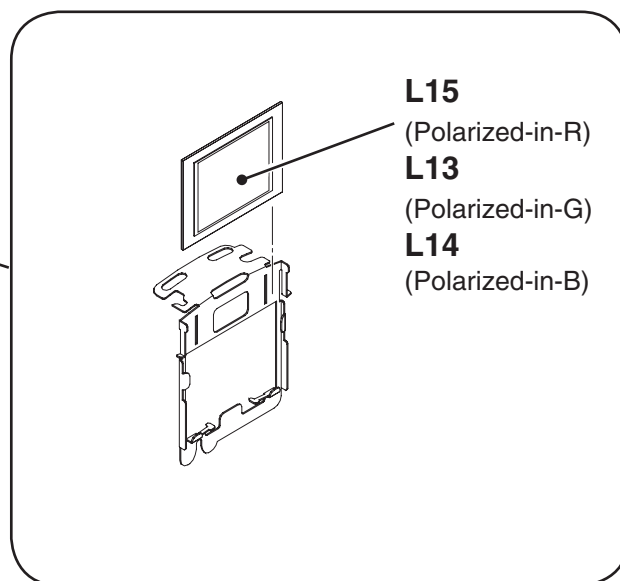
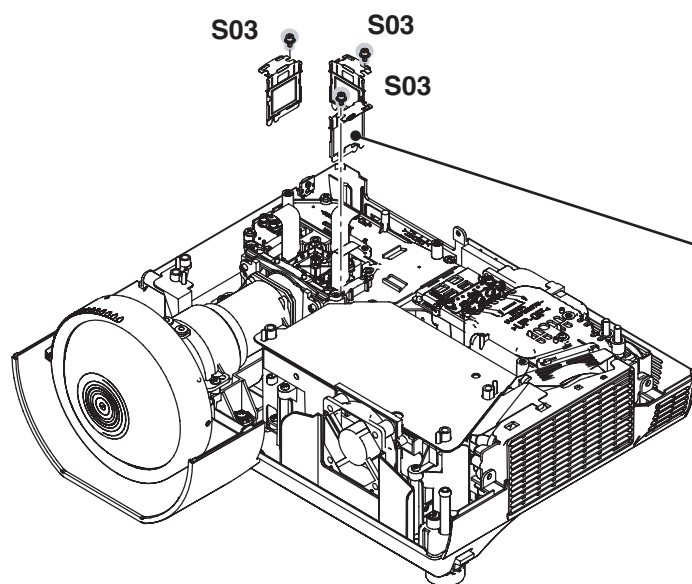
Cabinet Parts Location



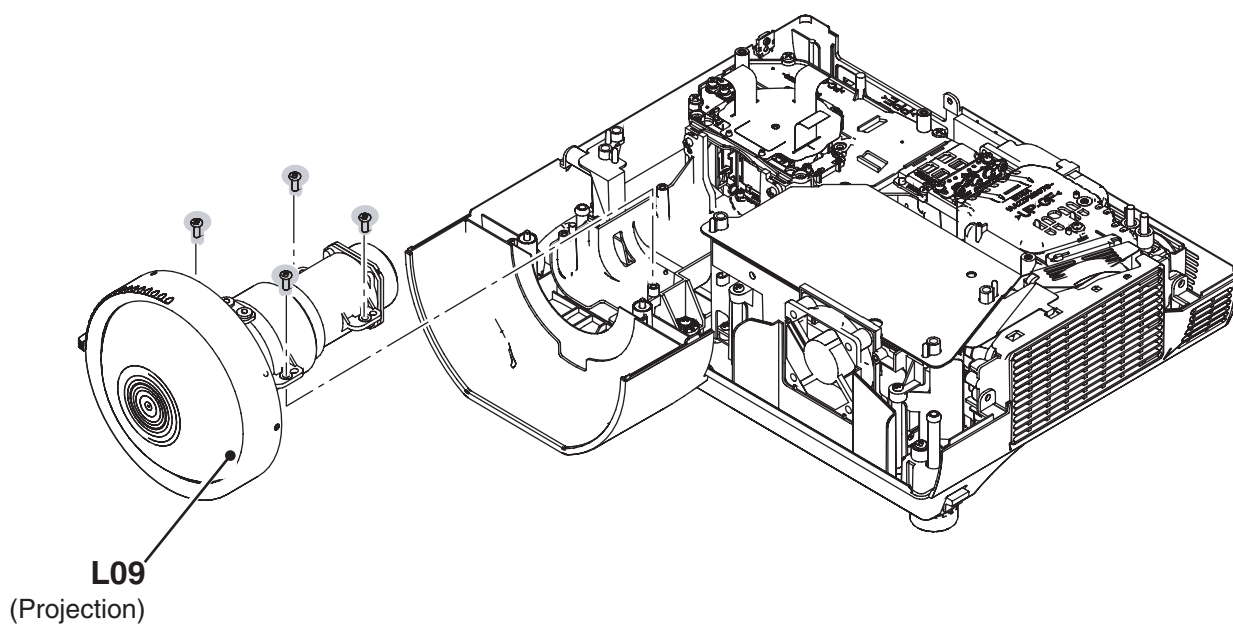
Mechanical Parts List**Optical Parts Location****Integrator Lens-In****Relay Lens-Out**

Mechanical Parts List

Polarized Glass-In

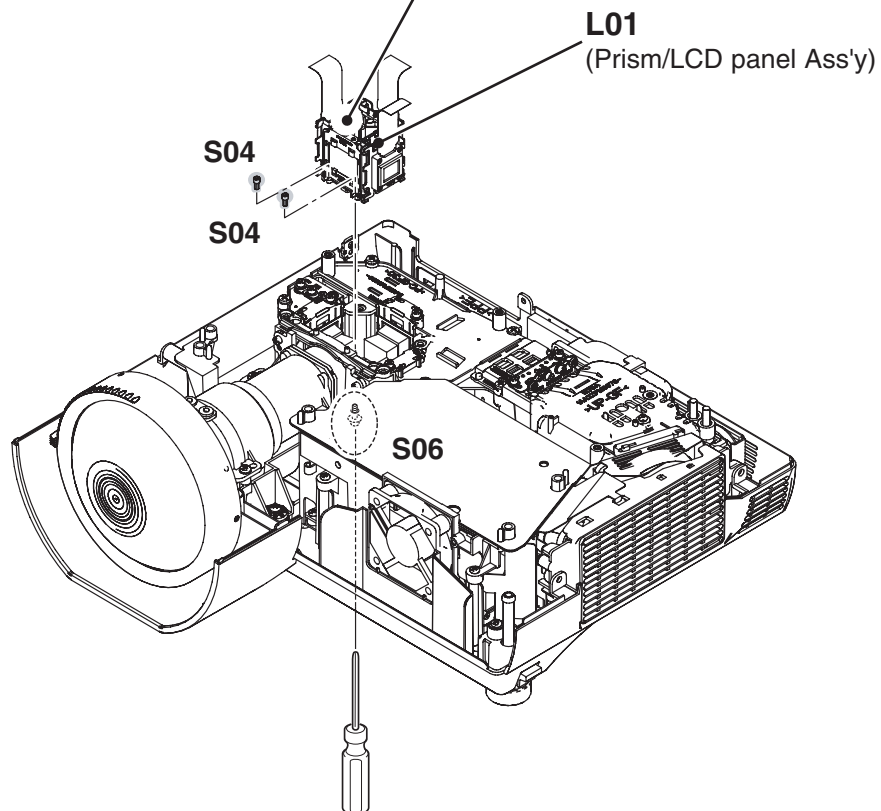
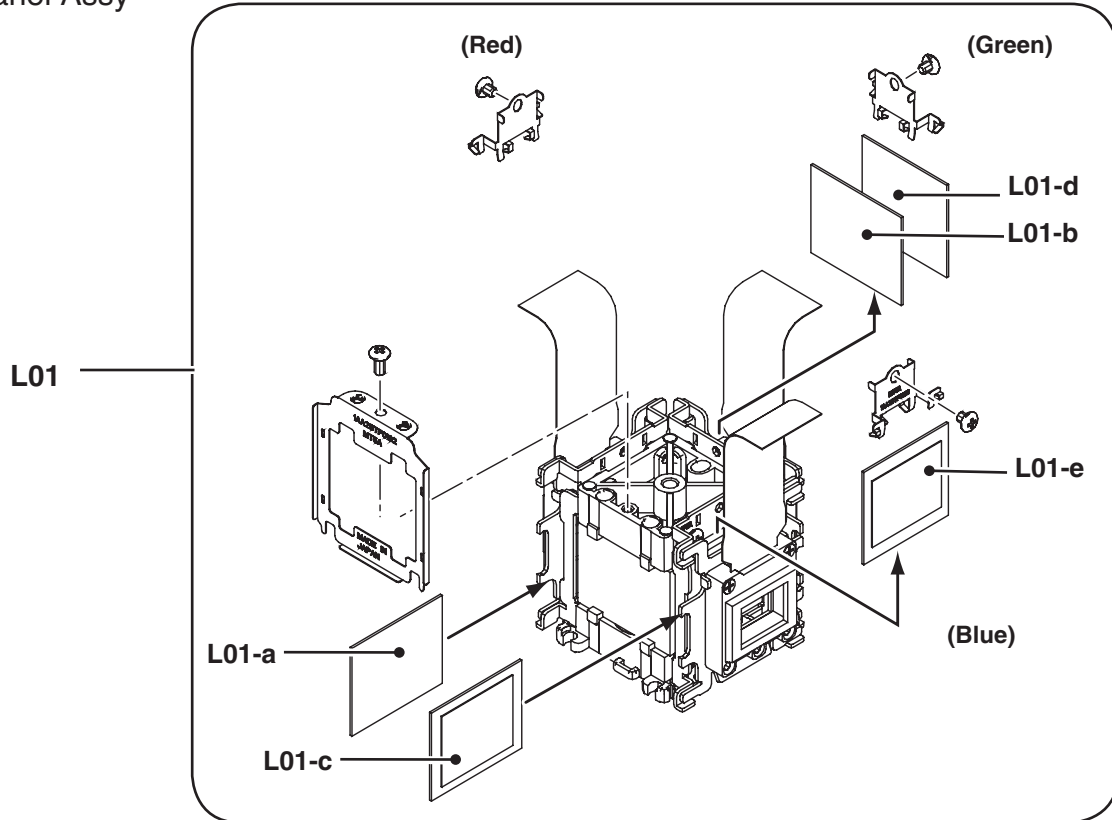


Projection Lens



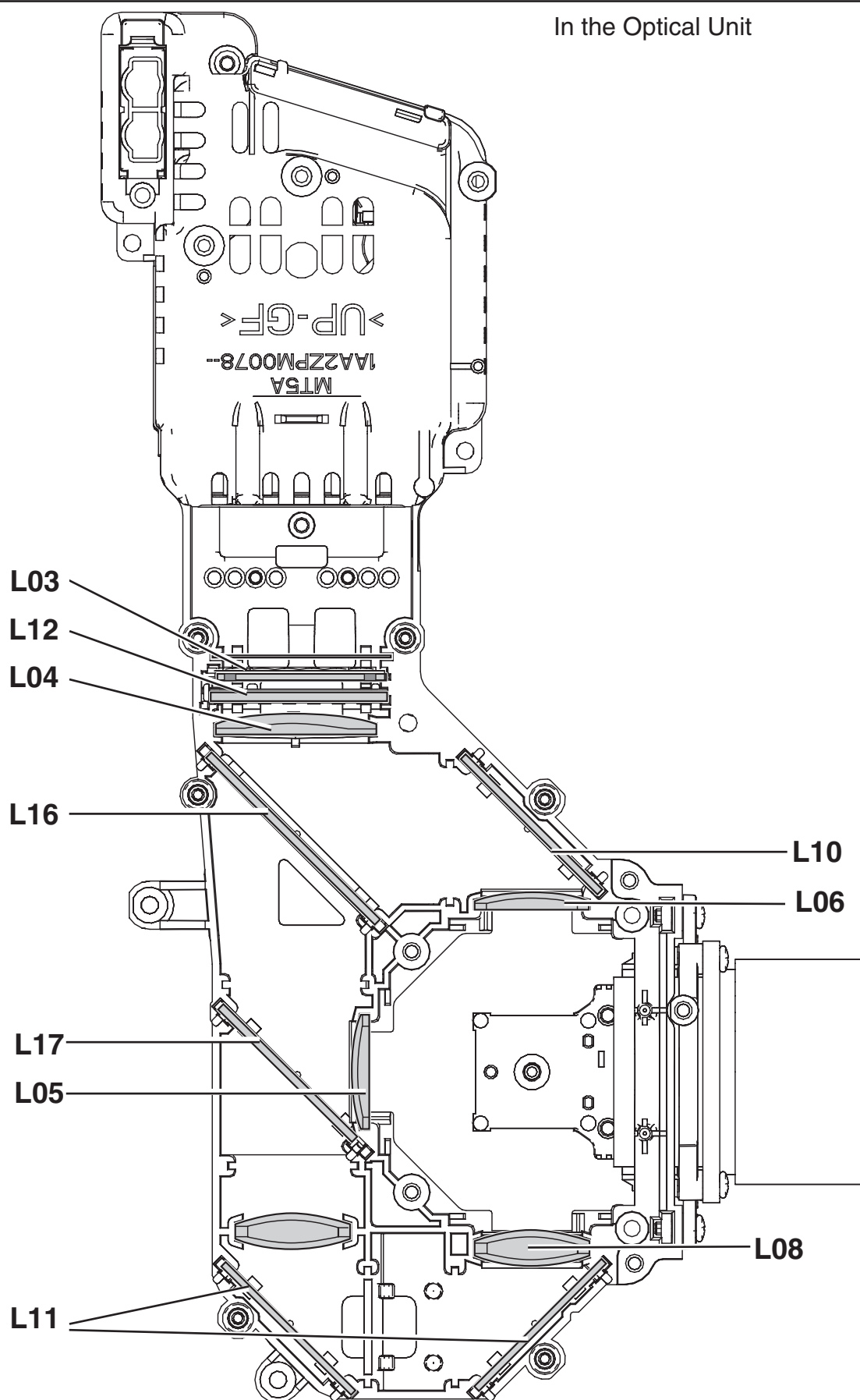
Mechanical Parts List

Prism/LCD Panel Assy



Mechanical Parts List

In the Optical Unit



Mechanical Parts List

Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No.	Part No.	Description	Key No.	Part No.	Description
CABINET PARTS			L12	945 078 0845	PRISM(PBS)
C01	910 323 1779	ASSY,STAND LEG-MT5A	L13	945 087 1178	POLARIZED GLASS(IN/G)
	910 330 9362	ASSY,STAND-KT6AC	L14	945 083 3886	POLARIZED GLASS(IN/B)
C02	610 339 1854	CABINET TOP SERVICE-KJ7YC	L15	945 077 8347	POLARIZED GLASS(IN/R)
	(Including Key No. C02-a and C02-b)		L16	945 085 0043	DICHROIC MIRROR (B)
C02-a	910 325 2538	DEC INLAY LED-PT5EC	L17	945 078 0784	DAICHROIC MIRROR(G)
C02-b	910 325 2606	DEC AV SHEET A-PT5EC			
C03	610 332 4326	CABINET BOTTOM SERVICE-LK6AC			
C04	610 331 1302	CAP LENS-LK6AC			
C05	610 332 4364	COVER ,LP SERVICE-LG6AC			
C06	910 325 2040	COVER, FUSE-PT5EC			
C07	610 332 0274	COVER, ALARM-LK6AC			
C08	610 331 1562	COVER, ALARM BATTERY-LG6AC			
C09	610 331 1142	DEC INLAY LED-LG6AC			
C10	910 325 2477	DEC LEG-PT5EC			
C11	910 302 5613	DEC SHEET-M4JA			
C12	910 325 2033	FILTER BASE B-PT5EC			
C13	910 325 1982	FILTER BASE F-PT5EC			
C14	610 331 1494	GRILLE -LG6AC			
C15	610 332 0281	SPACER SHEET LENS TOP-LK6AC			
C16	610 332 0267	SPACER SHEET LENS BTM-LK6AC			
CHASSIS PARTS					
M01	610 332 4746	BUSH-KK6A			
M02	910 325 2460	DEC AV SHEET-PT5EC			
M03	610 331 9025	HOLDER POWER PWB B-KW6AC			
M04	910 325 2675	HOLDER LN FLT-PT5EC			
M05	610 331 1098	HOLDER ALARM PWB -LK6AC			
M06	610 332 0625	MOUNTING DUCT TOP-LK6AC			
M07	910 325 1913	MOUNTING DUCT LP-PT5EC			
M08	910 330 2622	MOUNTING DUCT TOP#PNL-KT6AC			
M09	910 330 2400	MOUNTING DUCT BTM#PNL-KT6AC			
M10	910 330 2493	MOUNTING DUCT PBS-KT6AC			
M11	610 331 1081	PANEL AV-KW6AC			
M12	910 325 2576	SPACER SHEET#POWER T-PT5EC			
M13	910 321 7810	OPTICAL BASE BTM-MT5A			
M14	910 321 7896	OPTICAL BASE TOP A-MT5A			
M15	910 321 7780	OPTICAL BASE TOP B-MT5A			
SCREWS					
S01	411 189 8600	SCR BIN 3X8			
S02	411 203 9507	SCR TPG FLT 3X6			
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5			
S04	312 069 7105	SPECIAL SCREW V			
S05	411 192 9601	SCR BIN 2X3			
S06	312 070 3400	SPECIAL SCREW-3.0X10V			
OPTICAL PARTS					
L01	610 334 8971	ASSY,PNL/PSM-KZ6AC			
	(Including Key No. L01-a to L01-e and LCD Panels)				
L01-a	945 077 8354	POLARIZED GLASS(OUT/R)			
L01-b	945 087 1185	POLARIZED GLASS(OUT/G)			
L01-c	945 082 0824	POLARIZED GLASS(OUT/B)			
L01-d	945 077 8385	PRE-POLARIZED GLASS			
L01-e	945 083 6597	PRE-POLARIZED GLASS			
L02	945 078 0692	LENS,INTEGRATOR(IN)			
L03	945 078 0708	LENS,INTEGRATOR(OUT)			
L04	945 078 0722	LENS,CONDENSER(OUT)			
L05	945 078 0739	LENS,CONDENSER(G)			
L06	945 087 1154	LENS,CONDENSER(B)			
L07	945 078 0753	LENS,RELAY(OUT)			
L08	945 078 0760	LENS,CONDENSER(R)			
L09	645 095 2630	LENS,PROJECTION			
L10	945 081 7640	MIRROR(B)			
L11	945 081 7657	MIRROR(R)			

Mechanical Parts List

Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PRM-10	KJ7-1000

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KJ7-1000 model PRM-10.
File with the service manual No. SM5110946-00.

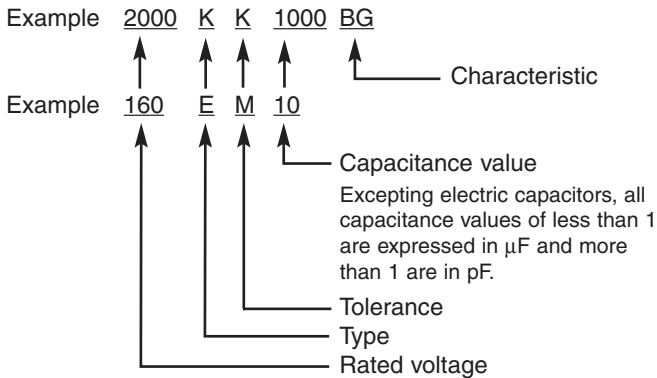
Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



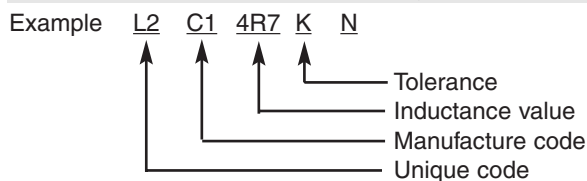
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypropylar
B	Ceramic (semiconductor)
G	Metalized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

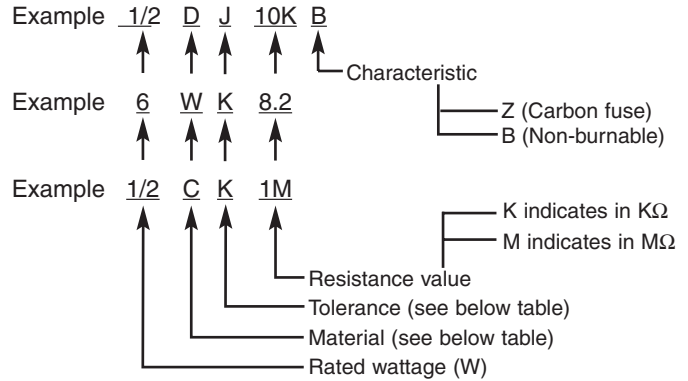
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1SS133, 1N4148

Transistor

(1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

(2) PNP type

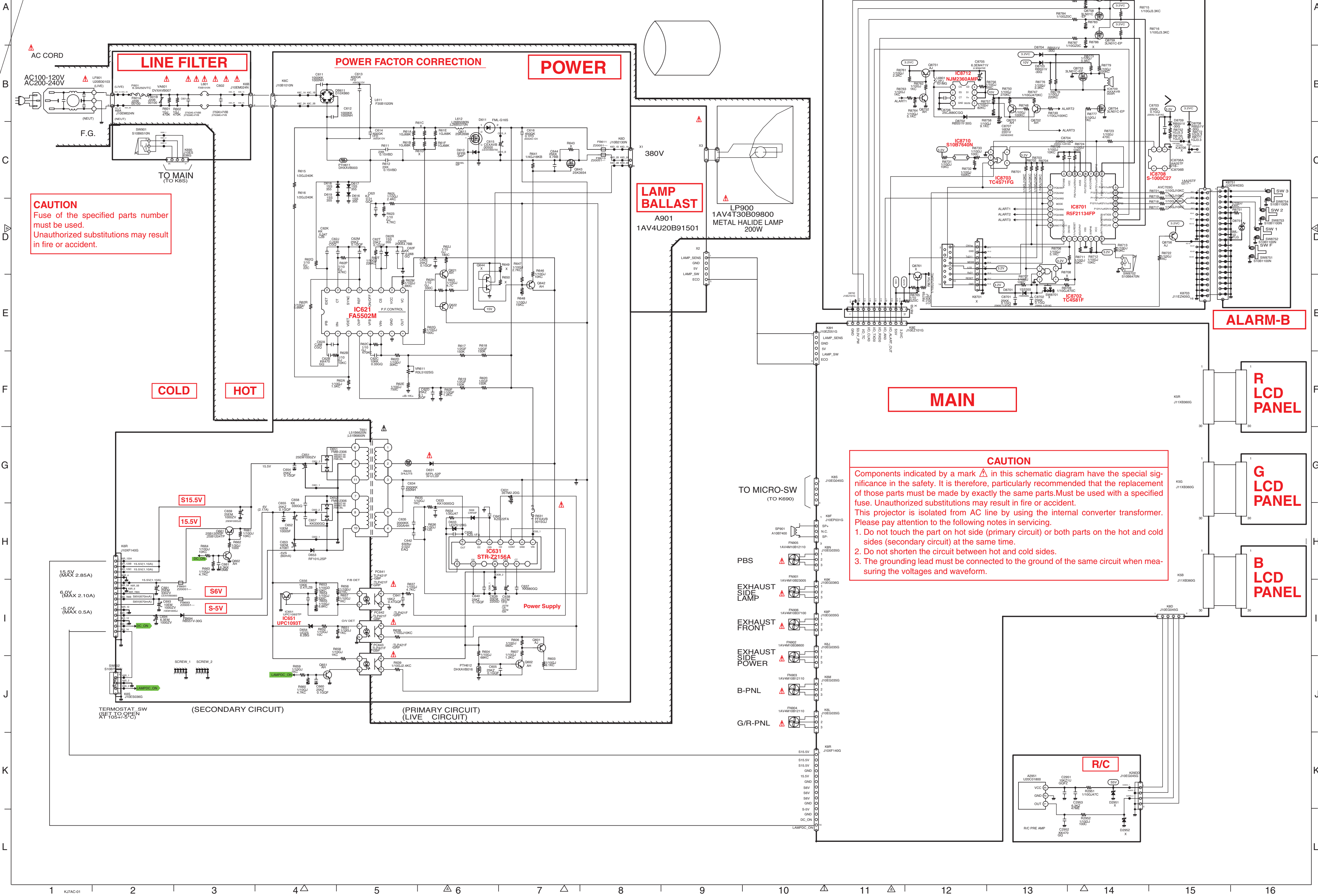
Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

(3) Chip type

Mark	Type number
--	2SA1179/N 2SA1037K 2SA1037AK 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	
	L6, L7 R, S

Schematic Diagrams

PROJECTION LENS
1AV4Z10B49602



A
B
C
D
E
F
G
H
I
J
K
L

A
B
C
D
E
F
G
H
I
J
K
L

IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL

IC101
UPD64012GJ

VIDEO DECODER
&
A/D

IC1801
TE7783PF
;TE7783APF

I/O EXPANDER

IC5201
PC1/PC2-SW

IC301
SCAN
CONVERTER
&
SYSTEM
CONTROL

IC8291
BA1580CFP
;TA4801SAF

FROM IC1801
OR IC301 {
SCK
SDT
SC311
Z30B0220G
X
F_GND F_GND

A

B

C

D

E

F

G

H

I

J

K

L

A

B

C

D

E

F

G

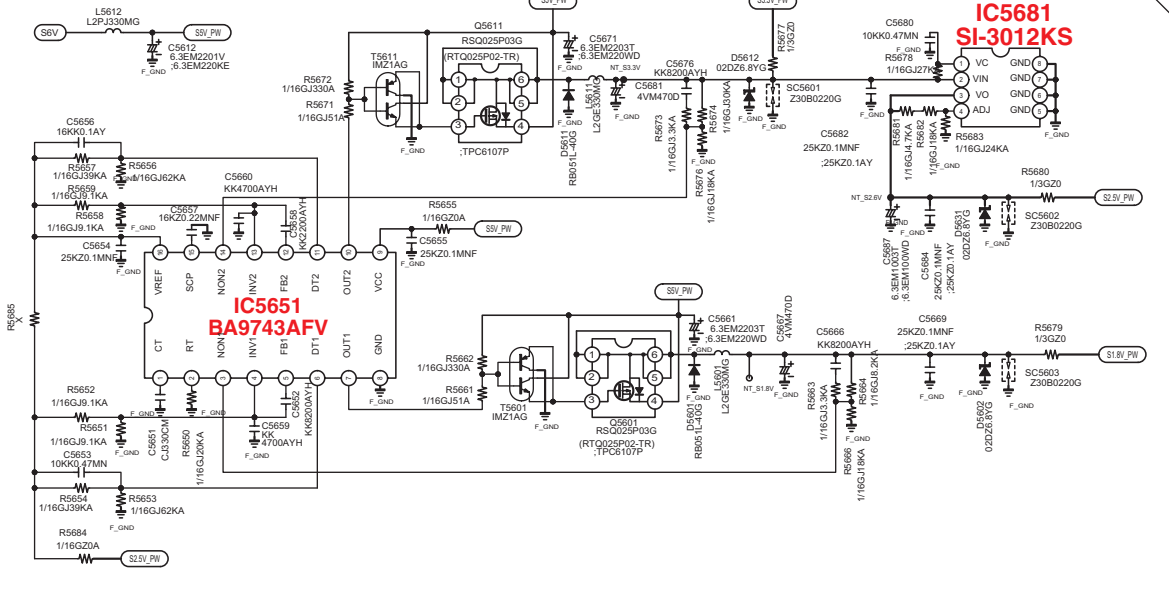
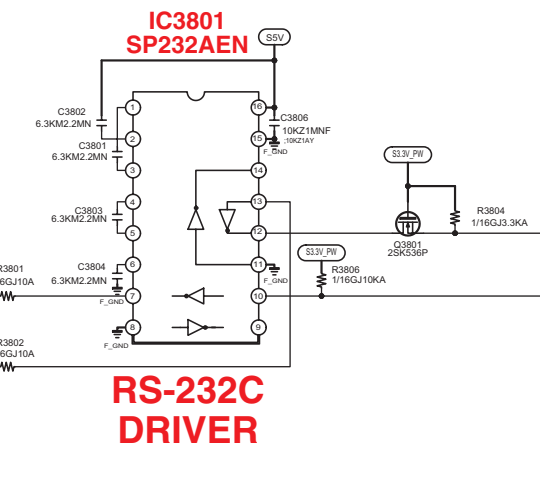
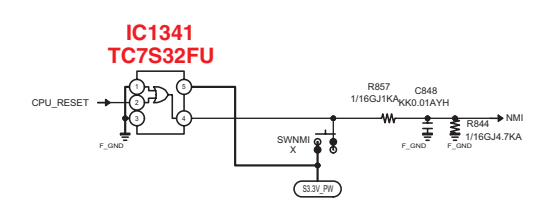
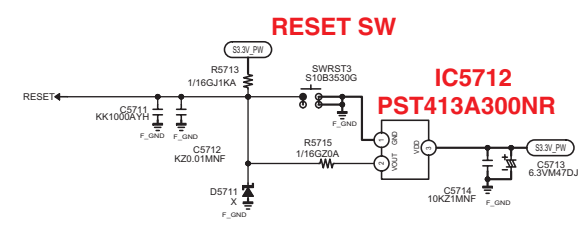
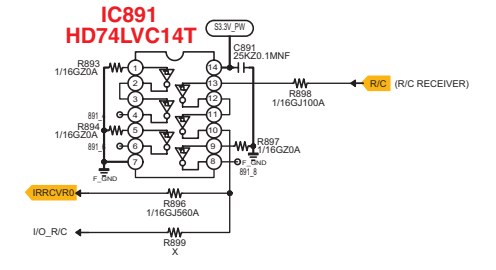
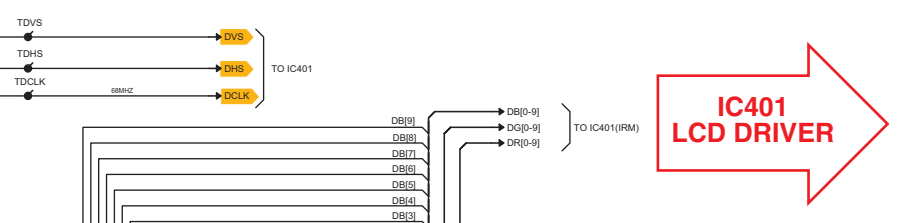
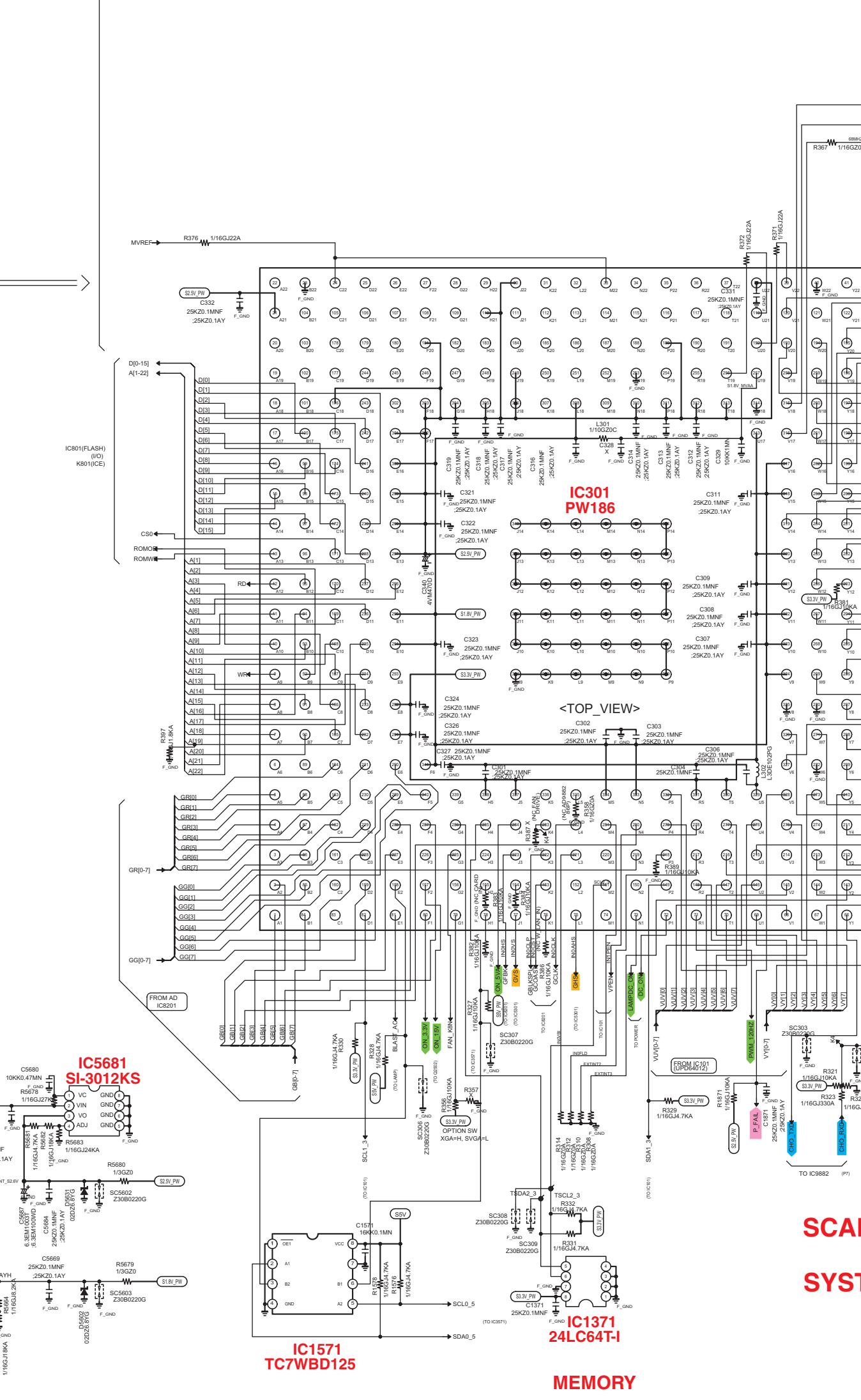
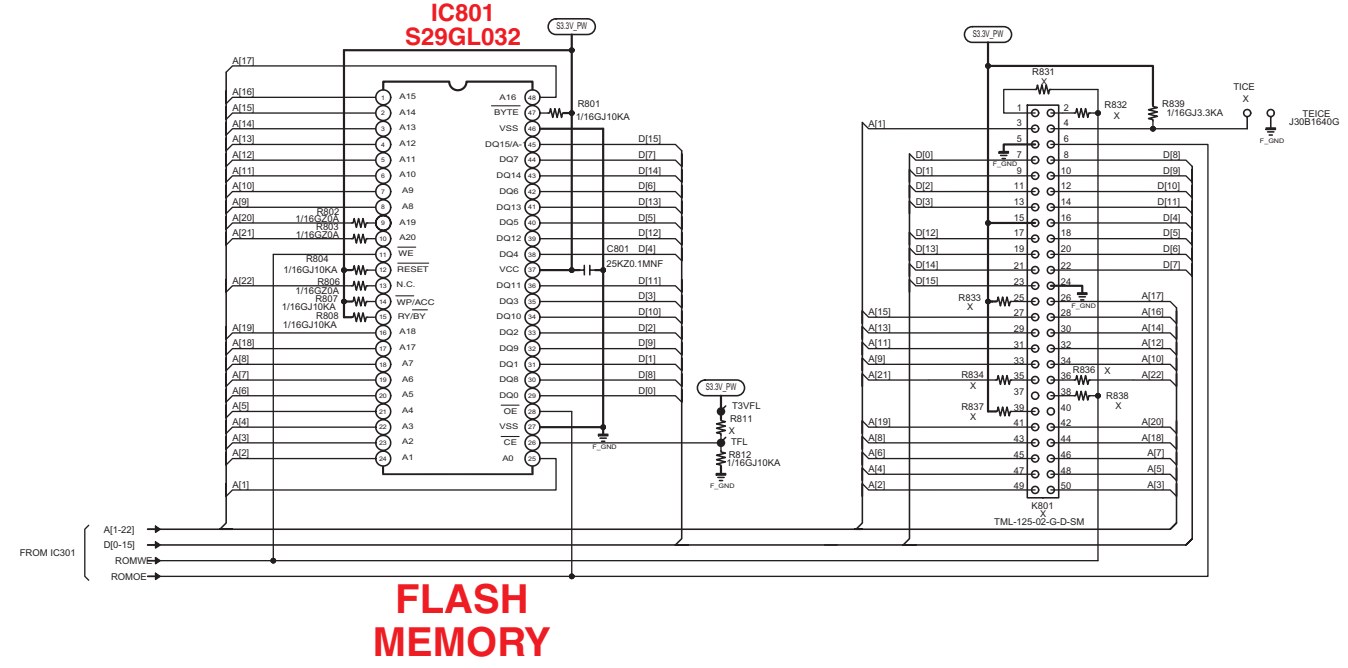
H

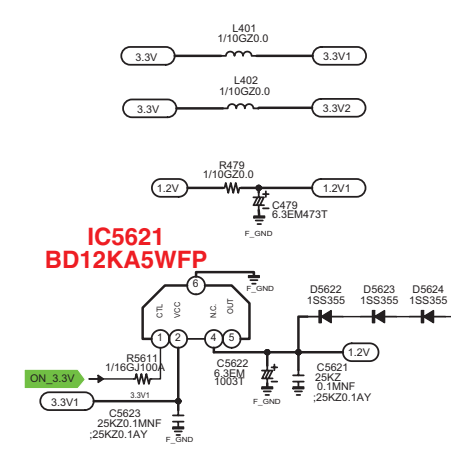
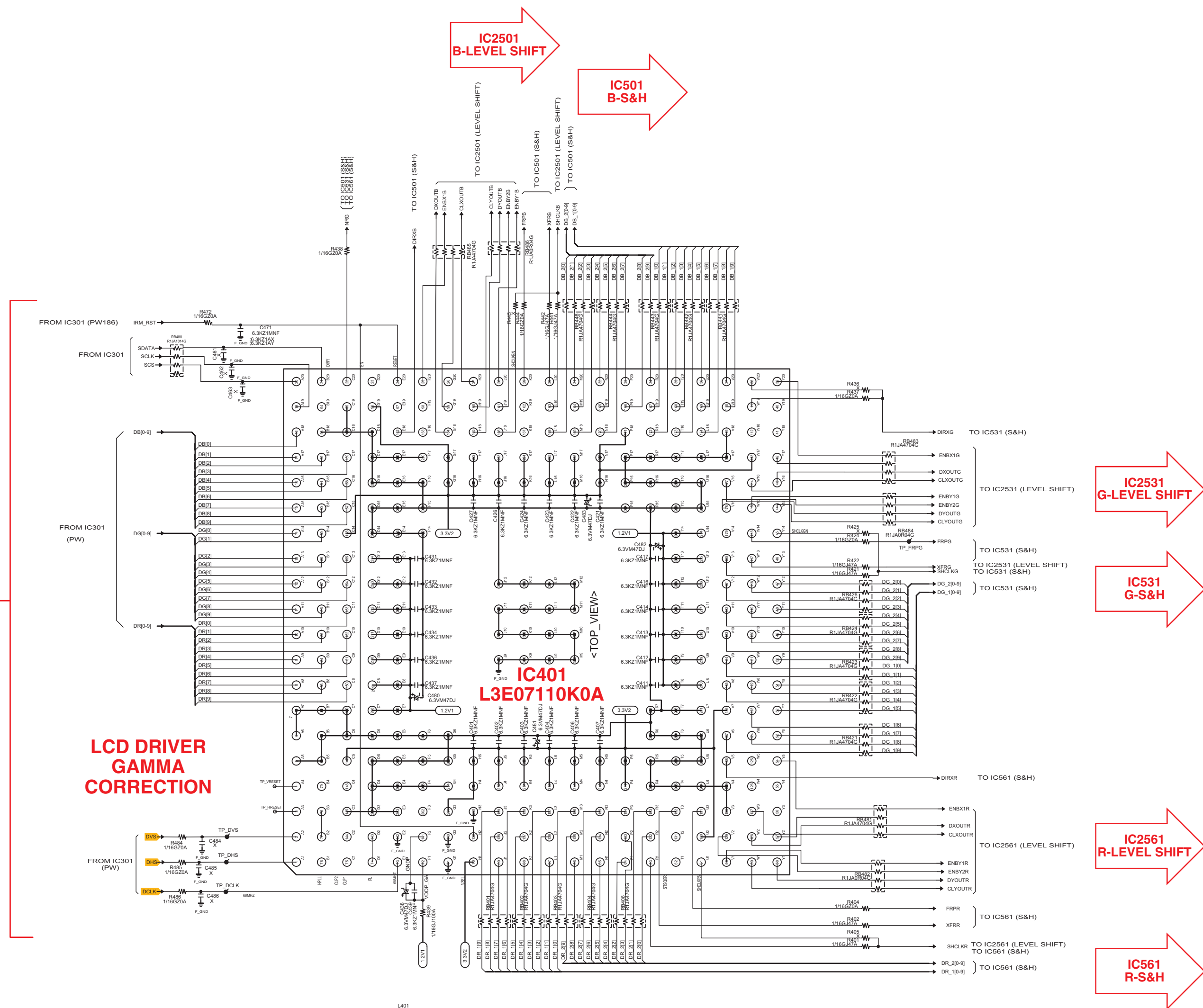
I

J

K

L





A

B

C

D

E

F

G

H

I

J

K

L

A

B

C

D

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G

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I

J

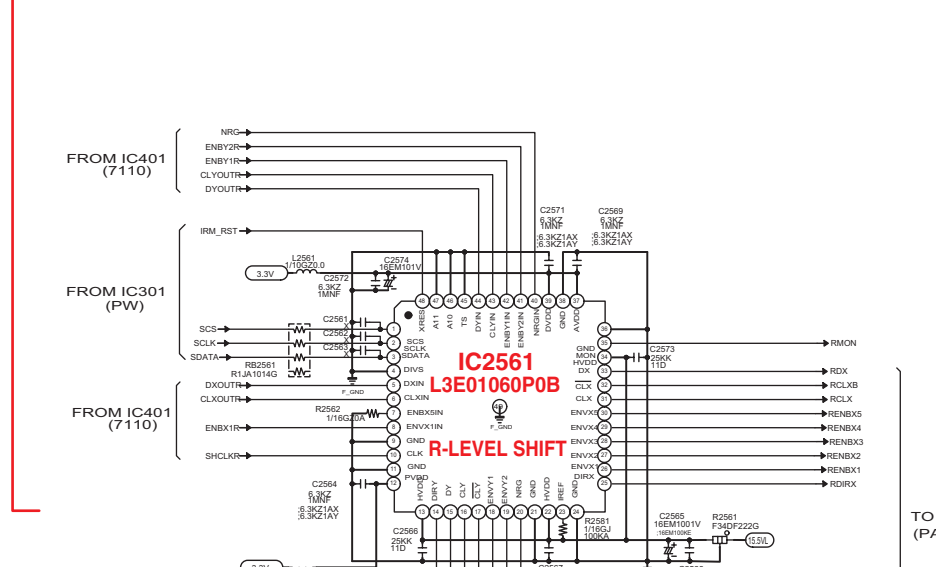
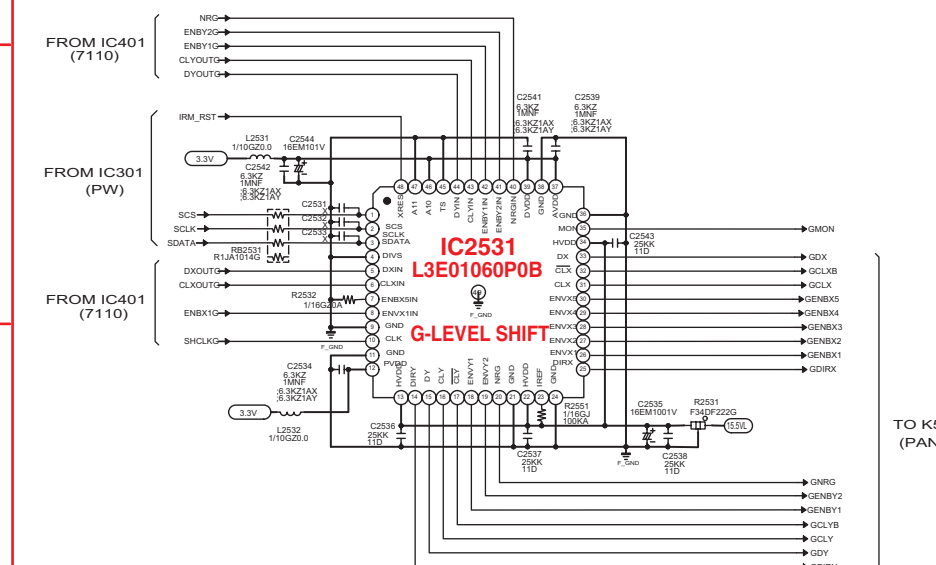
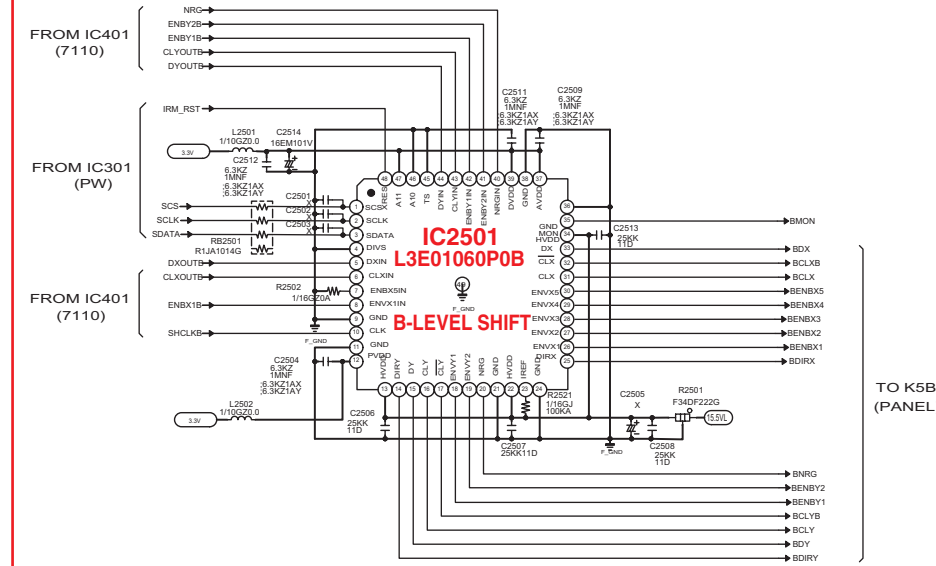
K

L

IC401
LCD DRIVER
GAMMA
CORRECTION

IC301
SCAN CONVERTER
SYSTEM CONTROL

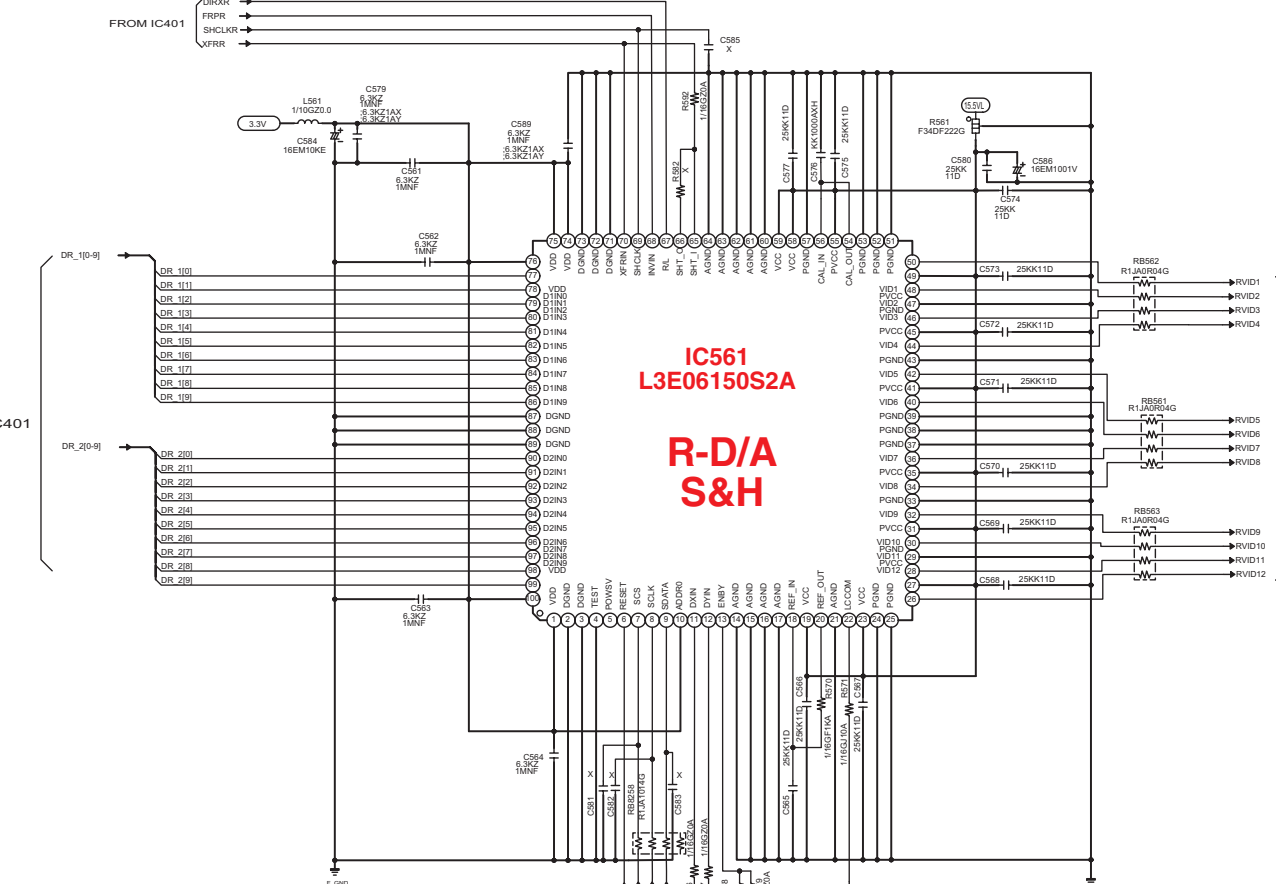
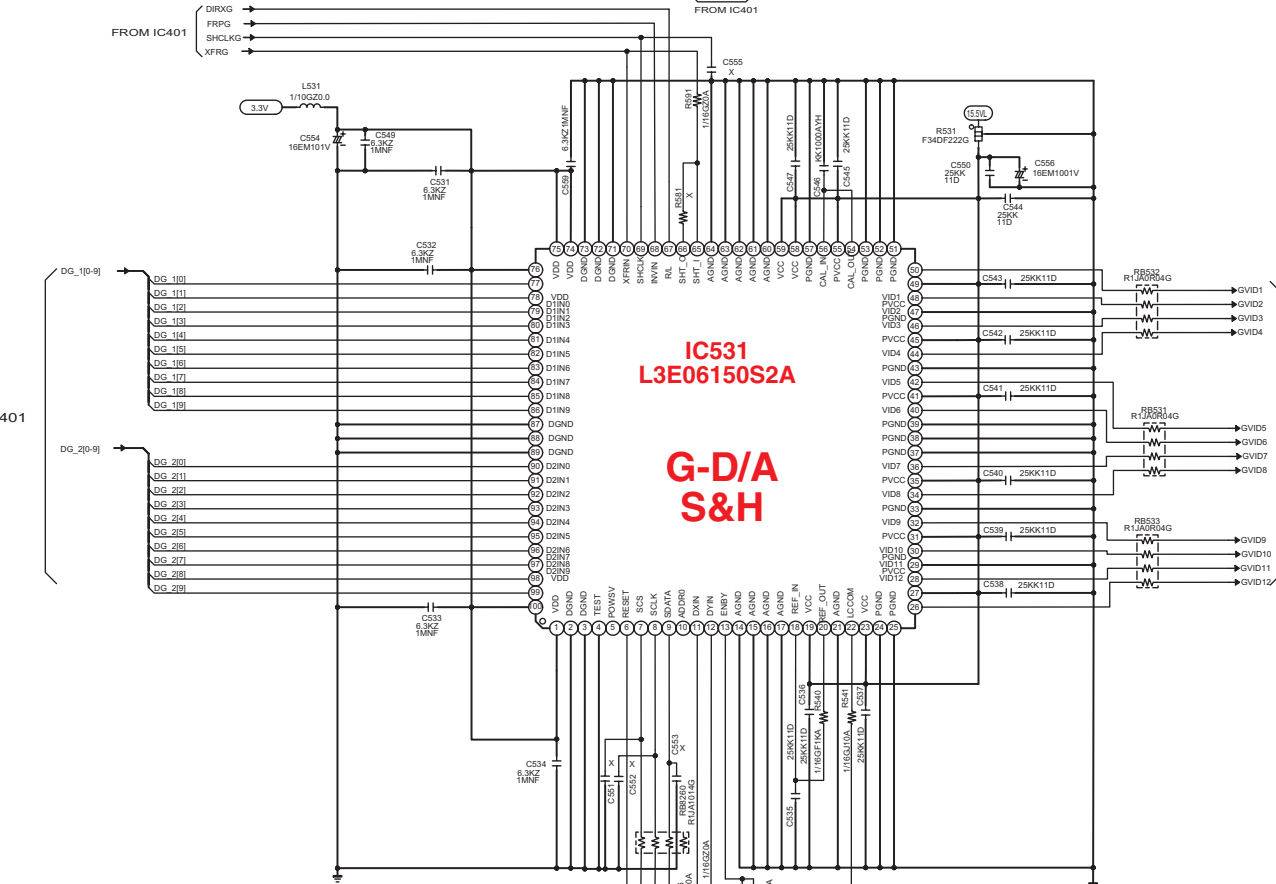
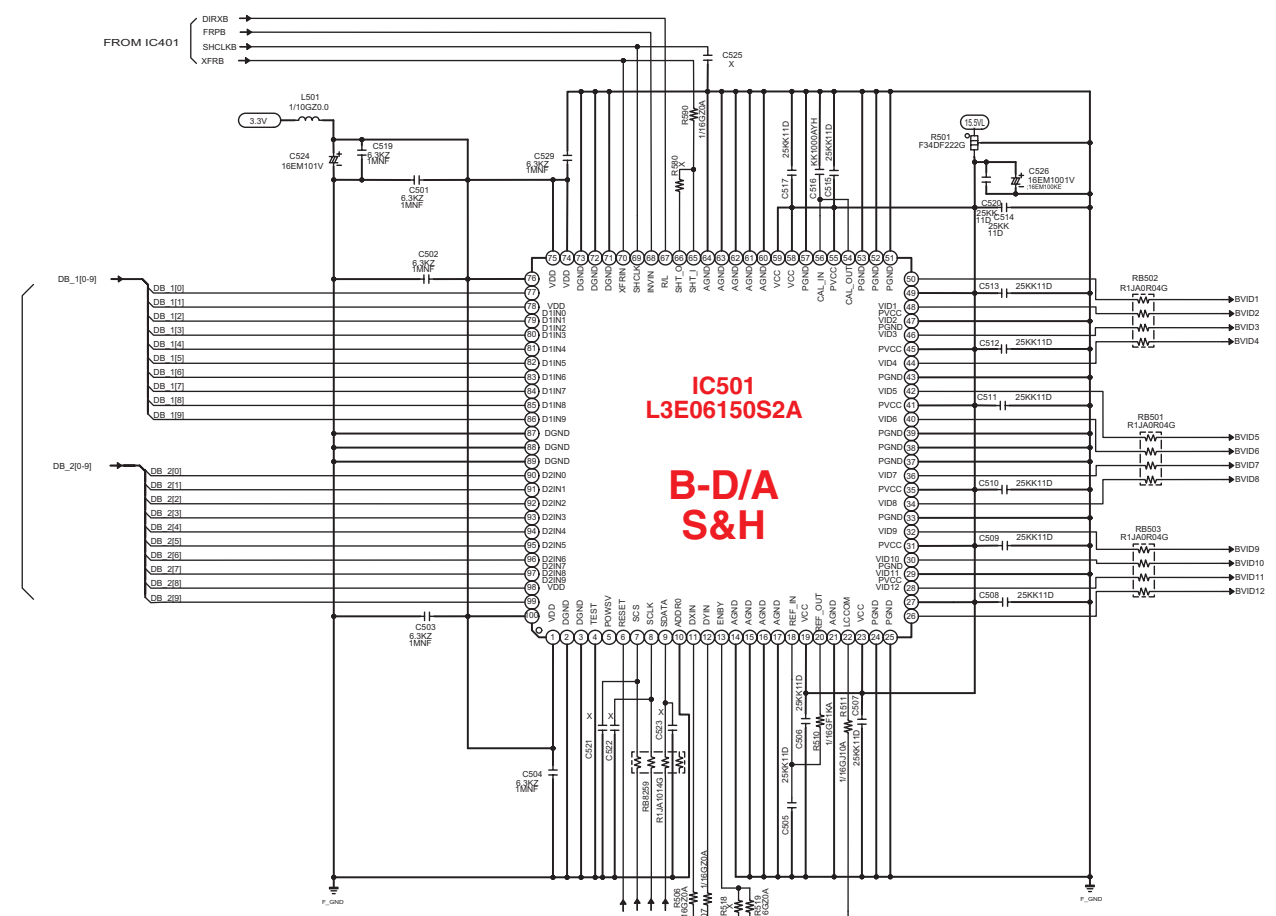
IC401
LCD DRIVER
GAMMA
CORRECTION



FROM IC401

FROM IC401

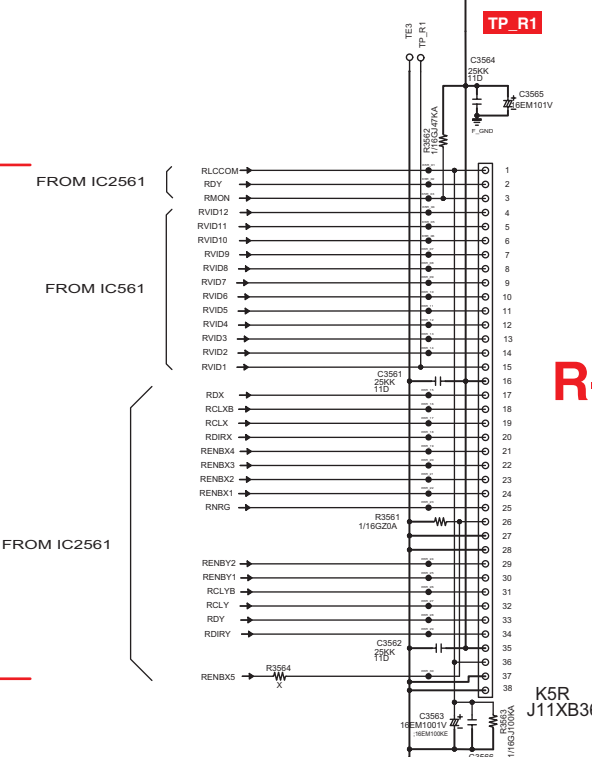
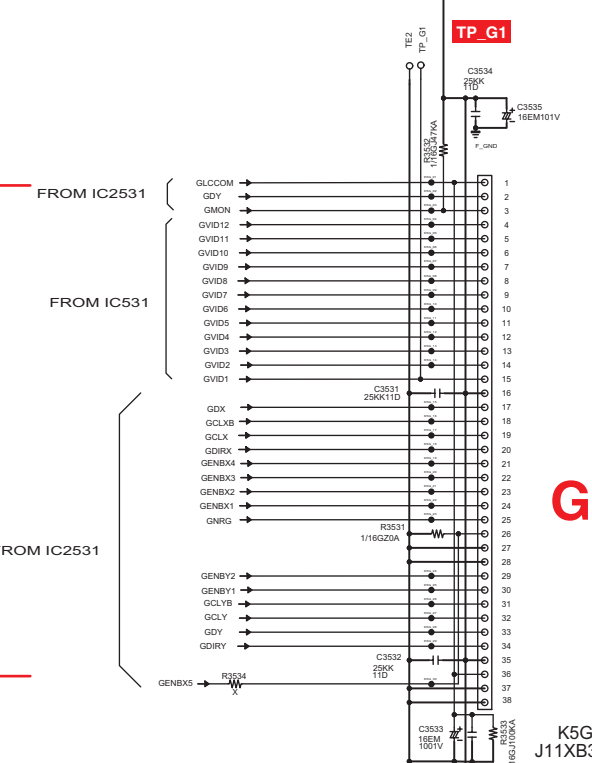
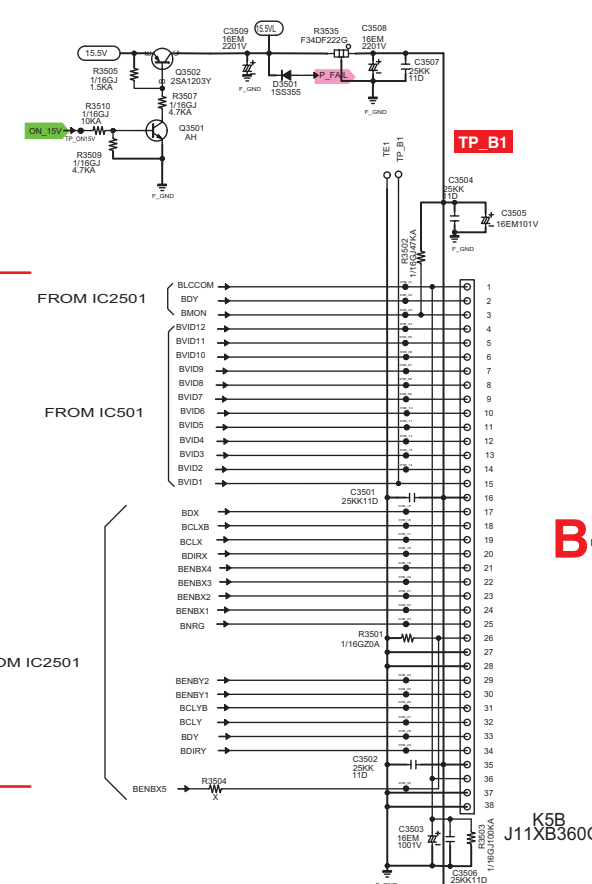
FROM IC401

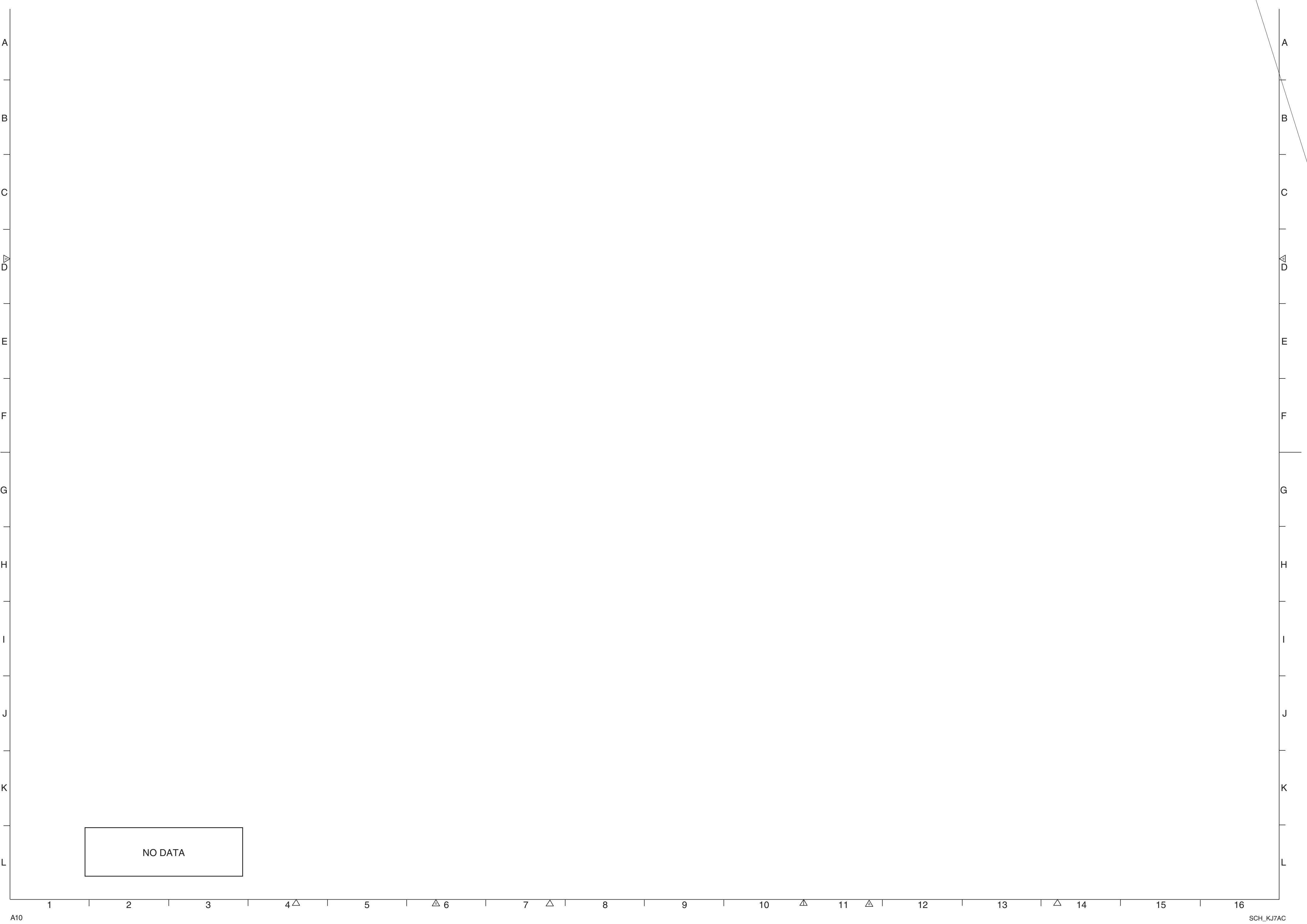


TO K5B

TO K5G

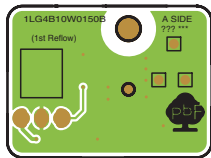
TO K5R



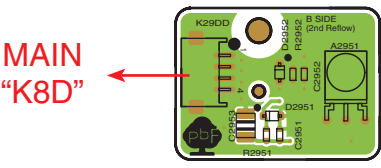


Printed Wiring Board Diagrams

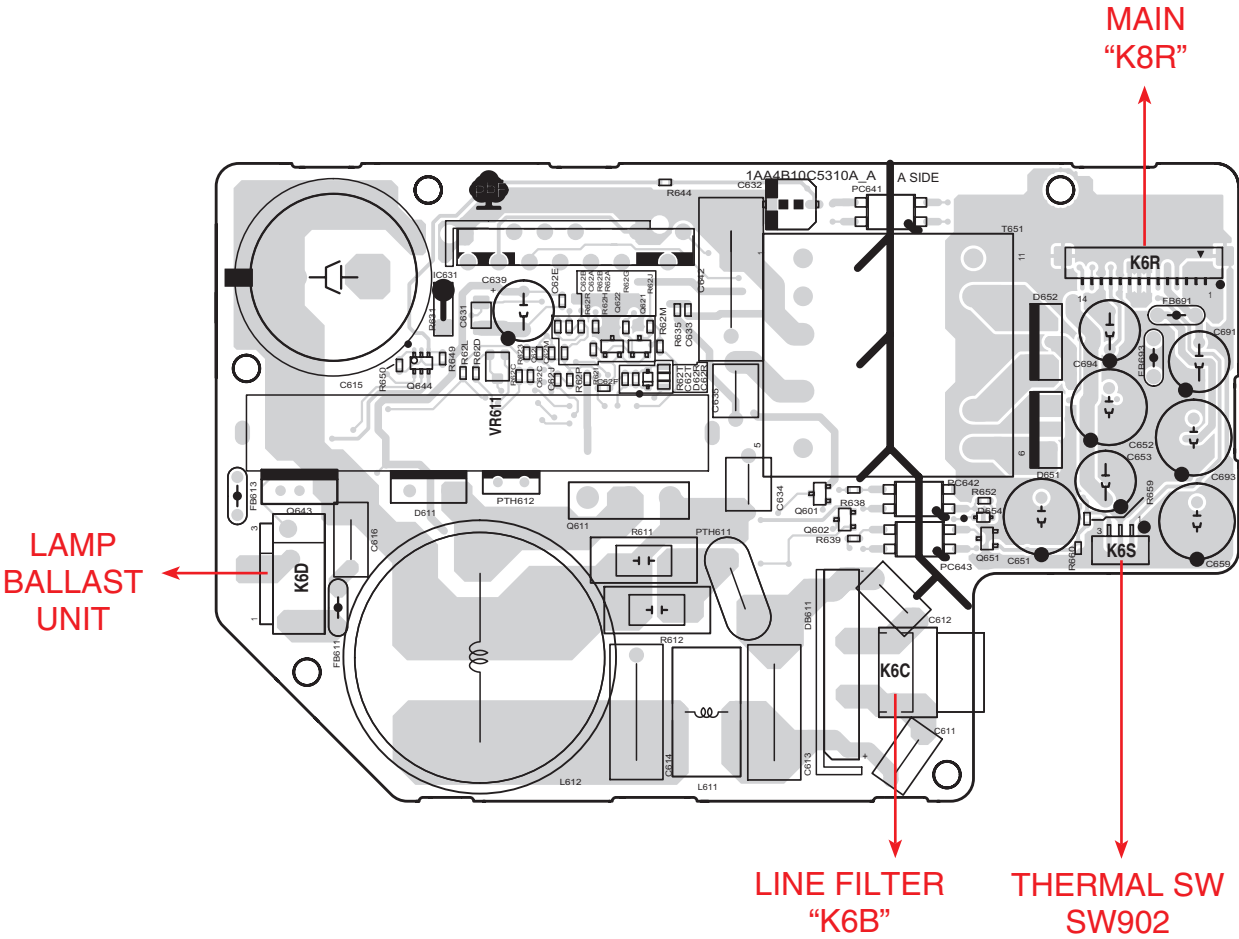
R/C (SIDE:A)



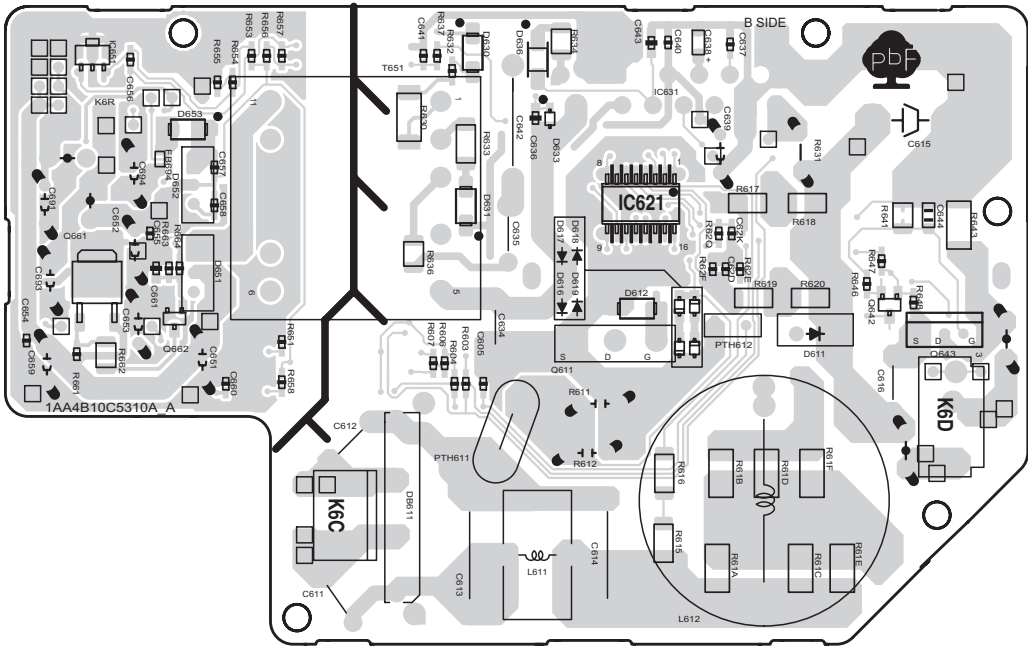
R/C (SIDE:B)



POWER (SIDE:A)



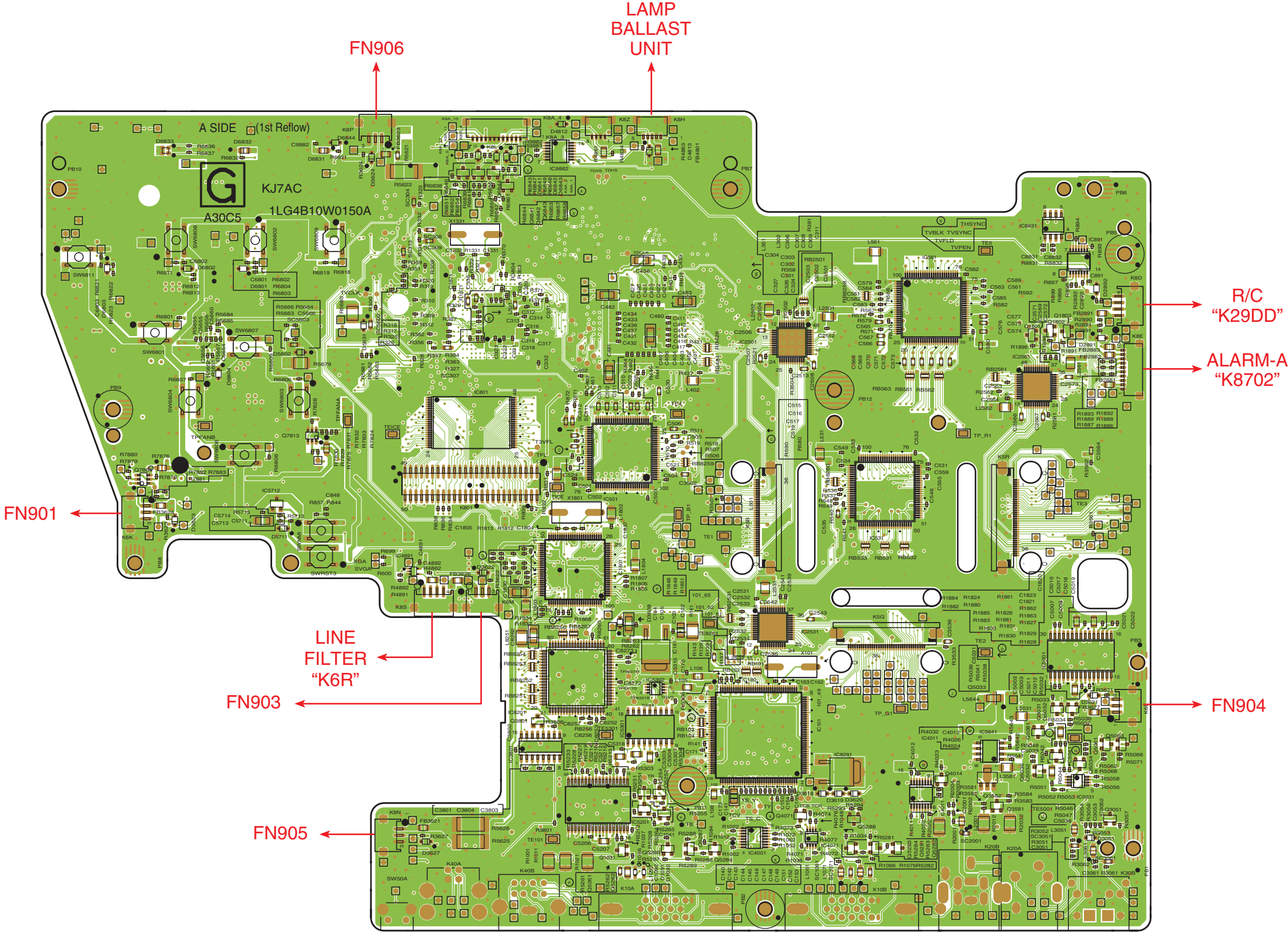
POWER (SIDE:B)

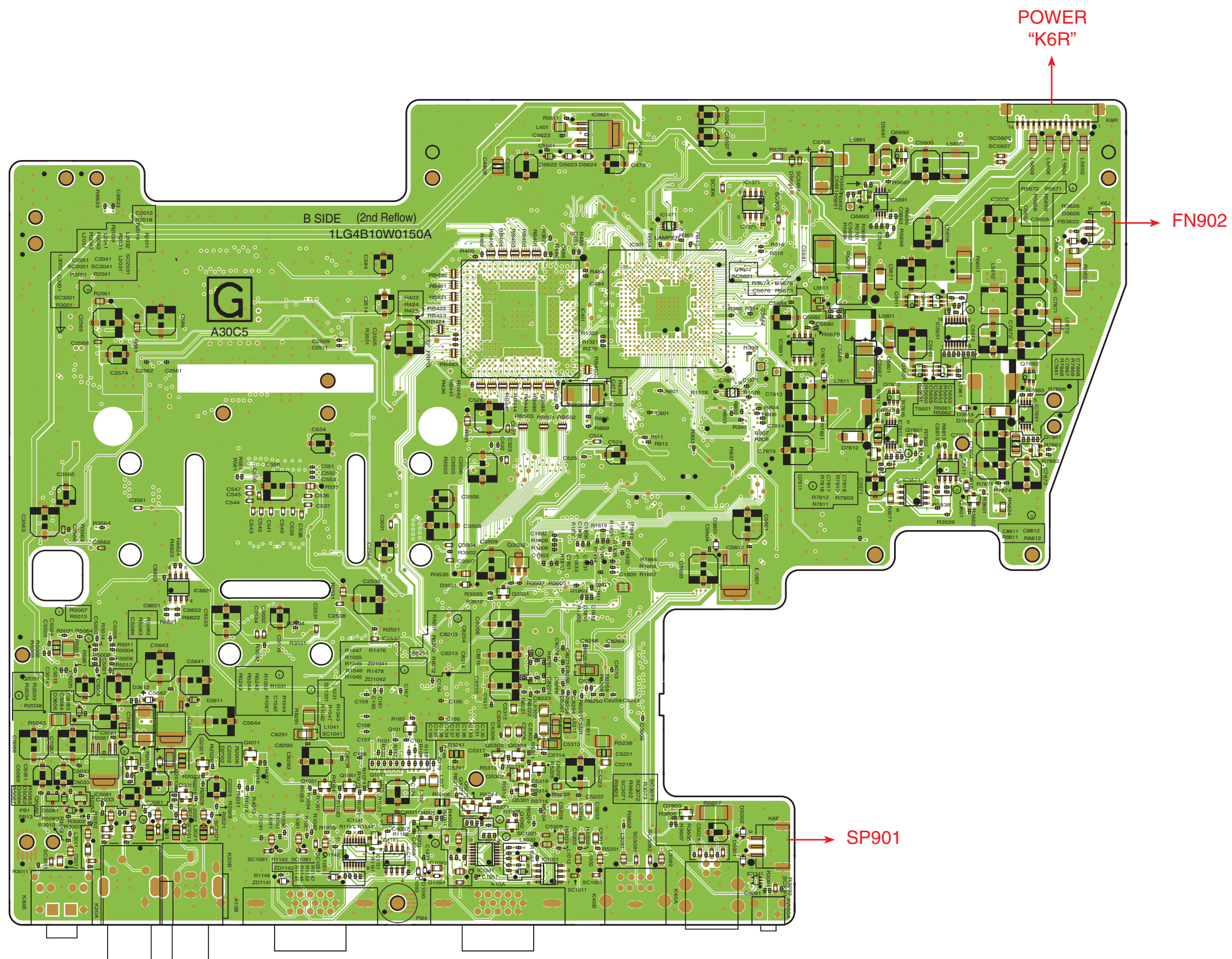


⚠ CAUTION

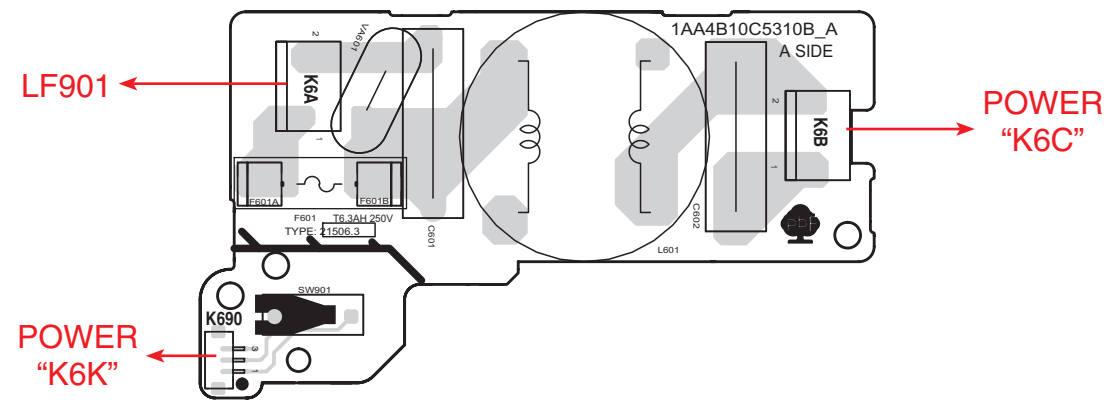
This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

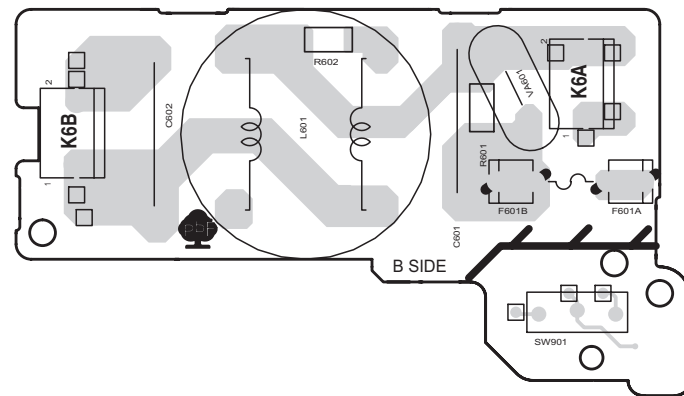




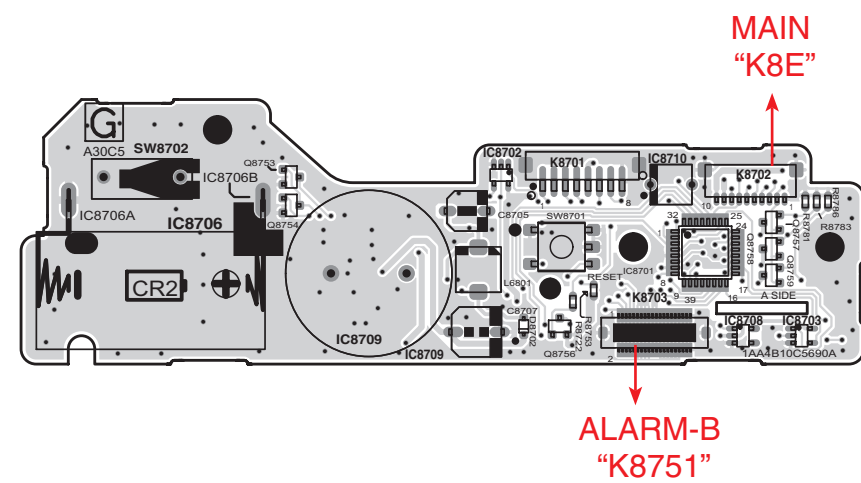
LINE FILTER (SIDE:A)



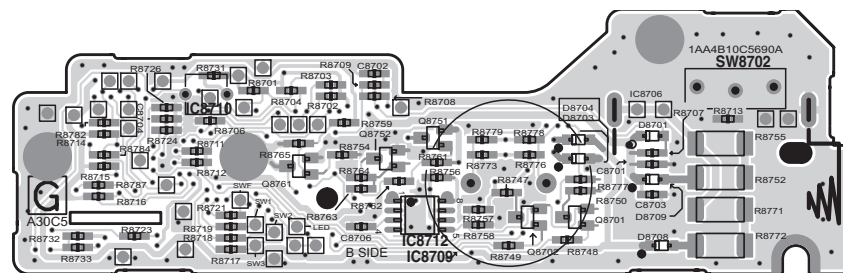
LINE FILTER (SIDE:B)



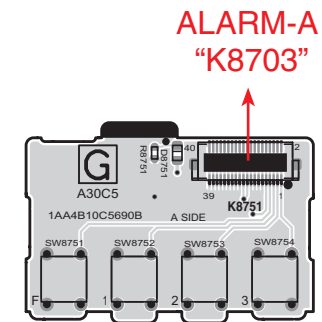
ALARM-A (SIDE:A)



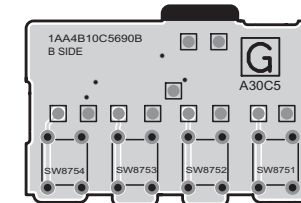
ALARM-A (SIDE:B)



ALARM-B (SIDE:A)



ALARM-B (SIDE:B)



- Transistor/FET



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.